



PRODUCT CATALOG 2022

Desigo System

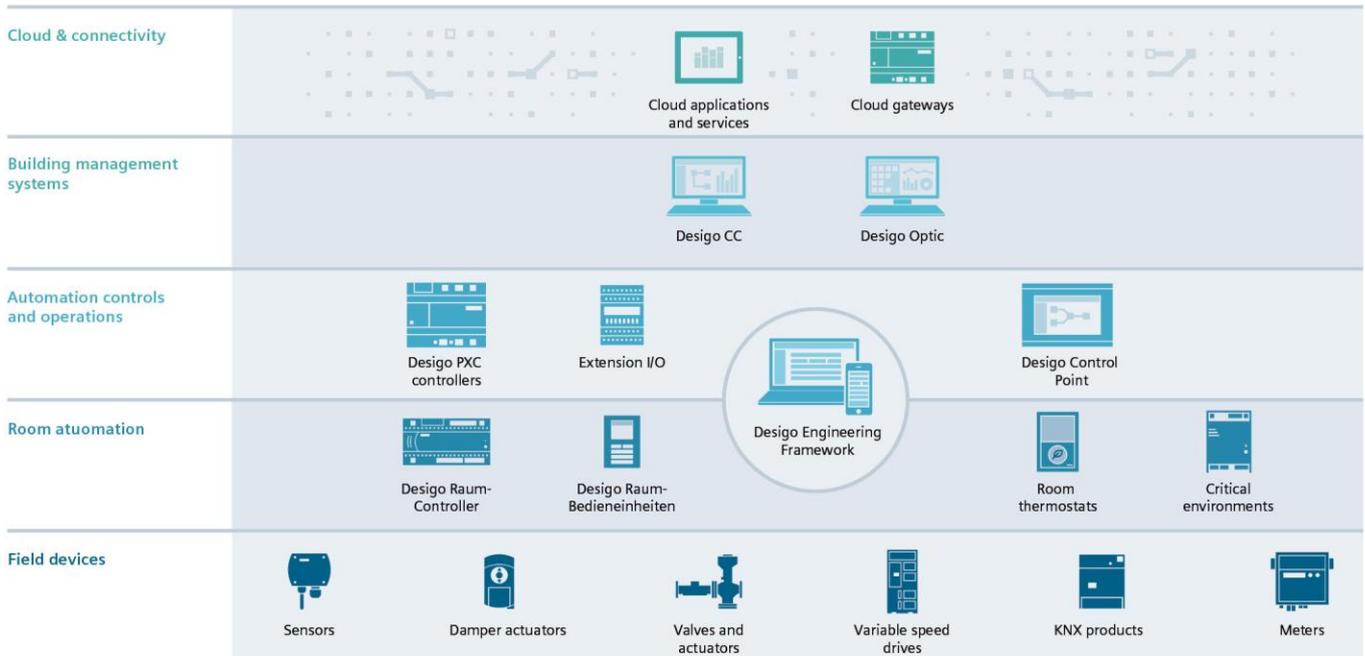
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SIEMENS

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Desigo building automation system



Thanks to its open standard communication and scalability, Desigo is able to fit into multiple applications and thrive the performance continuously over time. You get the right tools to manage and connect all disciplines of HVAC, lighting, shades and security for various types of buildings such as:



Hospitals/
Healthcare



Data
centers



Commercial buildings
and retail



Pharmaceuticals
and life science

... and many
more

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Desigo is ready for building information (BIM)

The future of the construction industry is digital and BIM is the right method to support efficient planning, construction and operation in a holistic approach connecting all parties involved. Customers benefit from earlier conflict and error detection, improved budget reliability, faster project delivery, higher building quality and a sound basis for lifecycle cost optimization.

Desigo is ready for BIM: With a wide range of products with BIM data in standard BIM formats, Siemens makes it easy to experience the future of construction. BIM data from Siemens, which is regularly updated, can be used directly in REVIT or converted to IFC, so you can be sure your BIM data is up to date.



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PXC7.E400S	Automation Station, BACnet/IP, BACnet/SC, 100 data points	A6V12505052	64
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Building management



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Desigo CC creates perfect places today and for the future

Whether you wish to enhance occupant comfort and productivity or to improve operational and energy efficiency, building management systems enable you to connect, monitor and operate your facility easily.

Desigo CC

Desigo CC is the integrated building management platform for managing high-performing buildings. With its open design, it has been developed to create comfortable, safe and efficient facilities.

It is easily scalable from simple single-discipline systems to fully integrated buildings.

- Integrate multi-discipline systems and devices
- Automate processes and scale your application to meet the requirements of any building or project size
- Operate, monitor and manage HVAC, fire, lighting, power management, security, video and third-party systems through one single interface

Desigo CC compact

The compact building management platform offers the unique breakthrough features of Desigo CC, focusing on functionalities required by small and medium-size buildings. It can be extended when needed, and proves that building management can be simple and powerful at the same time.

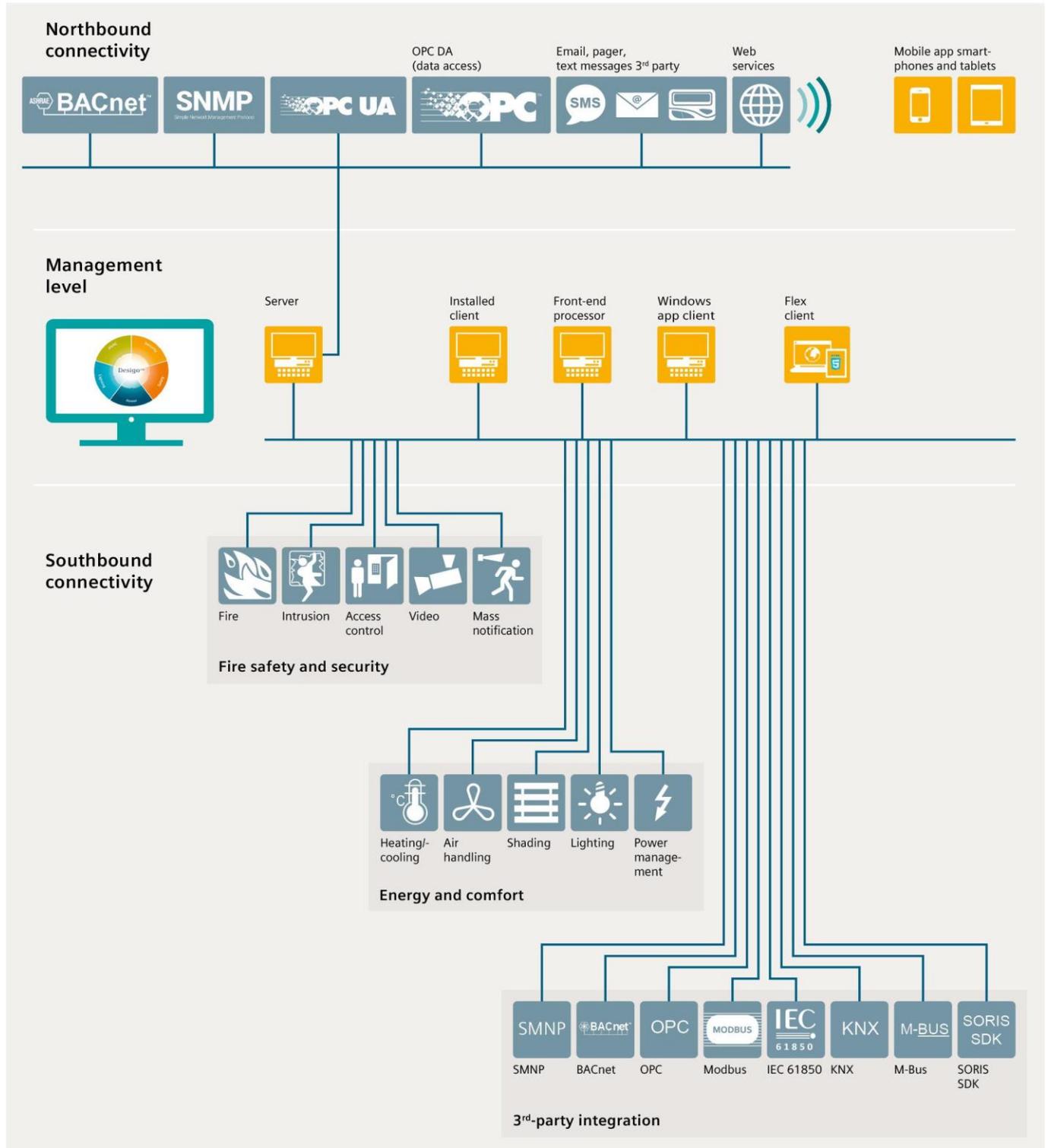
Desigo Optic

Desigo Optic is an open, powerful and scalable software solution for managing and controlling building automation systems.

- Powered by FIN Framework, it redefines openness, and brings the latest IoT technology to your building
- Make your building data work better using native Haystack and market leading dashboard builder
- Targeted at HVAC, power management and lighting through major protocols such as BACnet, Modbus, KNX and OPC
- Edge2Cloud technology provides secure encrypted remote access without the need for a VPN, at no extra cost
- Deploy two ways - on server or on the embedded controller

North-/southbound connectivity

Desigo CC integrates and allows to be integrated



Building management
Desigo CC Platform
Desigo CC

CCA-OP-FLX-BIM



Flex BIM viewer

Licensed option for flex BIM viewer.
Note: Requires CCA-STD-FSET or CCA-CMPT-xx license.

Stock no.

Product no.

P55802-Y128-A300

CCA-OP-FLX-BIM

Standard feature set for Desigo CC

CCA-STD-FSET



The Desigo CC management platform presents a single point of entry for users to operate, monitor and optimize building automation, fire safety and security systems or a combination of them. Desigo CC is a flexible, full client-server architecture allowing scalability from small / simple projects to large projects with high-end requirements. Desigo CC can be installed on one single computer, with full server and client functionality or on multiple servers in a distributed configuration. Furthermore, Installed, Web, and Windows App Clients can also be added on separate hardware. Additional system connections can be made through systems installed with Desigo CC Front End Processors (FEP) configurations. Web interfaces provide the customer an increased flexibility for operation and future extensions, e.g. mobile applications for tablets and smart phones.

The standard feature set for Desigo CC includes the following:

Functionality:

- Event Management & Journaling
- Graphic Viewer
- Scheduler, time based reactions, macros
- Logics (events/COV based Reactions, Scripts)
- Trend Viewer
- Long-Term Storage
- Remote Notification (E-Mail, Pager, SMS)
- Reports
- Log Viewer
- Assisted Treatment
- Operator Tasks
- Fire brigade maps
- Advanced Reporting
- Graphic Editor
- Distributed Systems
- Pharma Export
- Datamate (Apogee tool)
- VAD Advanced Import
- Long Term Storage & Archiving: Included 4 standard archive groups, 1 for each type of records (activities, events, incidents and values)
- Support for Validated Environments

Connectivity:

- Standard drivers (BACnet, OPC DA, Modbus, SNMP, S7 max. 8 PLC, KNX, M-Bus)
- Video connectivity to external VMS
- Mobile App and/or Web Service sessions
- OPC DA Server
- BACnet Server
- SNMP Agent

Clients:

- 1 client included (additional clients can be ordered)

Data points are not included in the feature set and need to be ordered separately.

Stock no.

Product no.

P55802-Y114-A100

CCA-STD-FSET

CCA-.._CL



Additional clients

Additional clients to the one included in the standard feature set.

Range overview CCA-.._CL

Product Title	Stock no.	Product no.
Add 1 client	P55802-Y119-A200	CCA-1-CL
Add unlimited number of clients	P55802-Y120-A200	CCA-MAX-CL

Data points

CCA-..-BA



Building automation data points

License extensions required for the integration of building automation systems like:

Desigo PX, Desigo TRA, Desigo RX, Siclimat X, SIMATIC HVAC Building Solution, APOGEE, Climatix...

In general, each physical I/O point counts as 1 BA data point. The exact count depends on the type of building automation system. Please refer to the Desigo CC Family Sales Policy for details or contact your local sales representative.

Type overview CCA-..-BA

Product Title	Stock no.	Product no.
Add 100 building automation data points	P55802-Y157-A412	CCA-100-BA
Add 500 building automation data points	P55802-Y157-A452	CCA-500-BA
Add 5'000 building automation data points	P55802-Y157-A453	CCA-5000-BA
Add 10'000 building automation data points	P55802-Y157-A414	CCA-10000-BA
Add 30'000 building automation data points	P55802-Y157-A434	CCA-30000-BA
Add 100'000 building automation data points	P55802-Y157-A415	CCA-100000-BA

CCA-..-FIRE



Fire detection data points

License extensions required for the integration of fire detection systems like:

Sinteso FS20, STT20, Desigo FS20 UL, Cerberus PRO EN, UL and CN, Algorex CS1140, Synova FC700A, Desigo Fire / Cerberus PRO Modular, XNET FireFinder, XLS and MXL...

In general, each automatic detector, each manual call point and each physical I/O point counts as 1 Fire data point. The exact count depends on the type of fire detection system. Please refer to the Desigo CC Family Sales Policy for details or contact your local sales representative.

Type overview CCA-..-FIRE

Product Title	Stock no.	Product no.
Add 100 fire detection data points	P55802-Y158-A412	CCA-100-FIRE
Add 500 fire detection data points	P55802-Y158-A452	CCA-500-FIRE
Add 5'000 fire detection data points	P55802-Y158-A453	CCA-5000-FIRE
Add 10'000 fire detection data points	P55802-Y158-A414	CCA-10000-FIRE

Security data points

CCA-..-SEC

License extensions required for the integration of security systems like:
SPC Intrusion, Sintony Intrusion, SiPass Access Control, Selesta VAM Access Control System, TOASOS Intercoms...

In general, each physical detector and each physical I/O point counts as 1 Security data point. The exact count depends on the type of security system. Please refer to the Desigo CC Family Sales Policy for details or contact your local sales representative.



Type overview CCA-..-SEC

Product Title	Stock no.	Product no.
Add 6 security data points	P55802-Y102-A460	CCA-6-SEC
Add 100 security data points	P55802-Y102-A412	CCA-100-SEC
Add 500 security data points	P55802-Y102-A452	CCA-500-SEC

Video surveillance data points

CCA-V-..

License extensions for embedded cameras, external cameras and additional monitors.

Each Video Camera connected to 'Siveillance VMS embedded' counts as 1 Embedded Camera data point.
Each video camera connected to Siveillance VMS counts as 1 External Camera data point.
Each camera connected to 3rd party VMS e.g. Milestone XProtect Expert and Corporate counts as 1 External Camera data point.
Each Video Monitor configured in Desigo CC counts as 1 Video Monitor data point.



Type overview CCA-V-..

Product Title	Stock no.	Product no.
Add 16 external cameras	P55802-Y161-A401	CCA-V-16EXTC
Add 128 external cameras	P55802-Y161-A412	CCA-V-128EXTC
Add 16 embedded cameras	P55802-Y162-A401	CCA-V-16EMBC
Add 16 monitors	P55802-Y160-A401	CCA-V-16MON
Add 128 monitors	P55802-Y160-A412	CCA-V-128MON

Access control data points (doors)

CCA-AC-..

License extensions required for the integration of access control systems like:

SiPass integrated

Each door counts as 1 Access Control door data point



Type overview CCA-AC-..

Product Title	Stock no.	Product no.
Add 16 doors	P55802-Y164-A401	CCA-AC-16EXTD
Add 128 doors	P55802-Y164-A412	CCA-AC-128EXTD

CCA-...SCADA



SCADA data points (Modbus, OPC, SNMP, S7, etc.)

License extensions required for the integration of SCADA data points.

Modbus:

Each Modbus register as 1 SCADA data point (NOT using HQ BA Modbus library)

OPC:

Each OPC tag counts as 1 SCADA data point

SNMP:

Each SNMP point counts as 1 SCADA data point

SIMATIC S7:

Each S7 tag counts as 1 SCADA data point

Other 3rd party integrations:

Each object model property counts as 1 SCADA Point (unless a dedicated approved library is used)

Type overview CCA-...SCADA

Product Title	Stock no.	Product no.
Add 100 SCADA data points	P55802-Y124-A412	CCA-100-SCADA
Add 500 SCADA data points	P55802-Y124-A452	CCA-500-SCADA
Add 5'000 SCADA data points	P55802-Y124-A453	CCA-5000-SCADA

CCA-...VAL



Validated points

For each validated object 1 validated point is needed

Type overview CCA-...VAL

Product Title	Stock no.	Product no.
Add 100 validated data points	P55802-Y154-A412	CCA-100-VALID
Add 500 validated data points	P55802-Y154-A452	CCA-500-VAL
Add 5'000 validated data points	P55802-Y154-A453	CCA-5000-VAL
Add 10'000 validated data points	P55802-Y154-A414	CCA-10000-VAL
Add 30'000 validated data points	P55802-Y154-A434	CCA-30000-VAL
Add 100'000 validated data points	P55802-Y154-A415	CCA-100000-VAL

CCA-...METER



Meter data points

License extensions required for the integration of meter data points.

Meter data points are required for:

- Integrating a device in Powermanager
- Additionally each meter data point gives a managed meter, allowing to pass trendlog into advanced energy reporting.

Type overview CCA-...METER

Product Title	Stock no.	Product no.
Add 10 meter data points	P55802-Y152-A411	CCA-10-METER
Add 100 meter data points	P55802-Y152-A412	CCA-100-METER

Electrical data points

License extensions required for the integration of electrical applications, like e.g. KNX devices.

In general, each KNX data type counts as 1 electrical data point. Please refer to the Desigo CC Family Sales Policy for details or contact your local sales representative.

CCA-..-ELEC



Range overview CCA-..-ELEC

Product Title	Stock no.	Product no.
Add 500 electrical data points	P55802-Y156-A452	CCA-500-ELEC
Add 5'000 electrical data points	P55802-Y156-A453	CCA-5000-ELEC
Add 30'000 electrical data points	P55802-Y156-A434	CCA-30000-ELEC
Add 100'000 electrical data points	P55802-Y156-A415	CCA-100000-ELEC

Options

Additional license options orderable for Desigo CC.

CCA-...-



Type overview CCA-...-

Product Title	Stock no.	Product no.
e-Car integration option	P55802-Y139-A300	CCA-OP-ECAR
Flex BIM viewer	P55802-Y128-A300	CCA-OP-FLX-BIM
Simatic S7 connectivity to max. 64 PLC	P55802-Y135-A300	CCA-S7-CONN
Simatic S7 plus driver	P55802-Y137-A300	CCA-S7-PLUS
Video option Plus for embedded VMS	P55802-Y159-A300	CCA-V-PLUS
Apogee P2 driver	P55802-Y133-A300	CCA-P2-DRIVE
IEC 61850 driver	P55802-Y136-A300	CCA-IEC61850
Add 1 custom archive group for a subset of data points	P55802-Y155-A410	CCA-1-ARCHGRP
Reno plus option	P54593-Y195-A300	CCA-M-RENOPLUS
Add one integration token	P55802-Y180-A410	CCA-1-INT-TK

Building management

Desigo CC Platform

Desigo CC Compact for Building Automation

CCA-CMPXL-BA



Feature set for Desigo CC Compact XL Building Automation

The Desigo CC Compact Management Platform is a single point of entry for users to operate, monitor and optimize small and medium sized buildings. Desigo CC Compact can be installed either on one single standard computer, or in an embedded hardware PC, with full server and client functionality. Furthermore, Installed, Web, and Windows App Clients can also be added on separate hardware. Web interfaces provide the customer an increased flexibility for operation and future extensions, e.g. mobile applications for tablets and smart phones.

The feature set for Desigo CC Compact XL Building Automation includes the following

Functionality:

- Event Management & Journaling
- Graphic Viewer
- Scheduler, time based reactions, macros
- Trend Viewer
- Reports
- Log Viewer
- Graphic Editor
- Datamate (Apogee tool)
- Operator Tasks

Connectivity:

- Standard drivers (BACnet, OPC DA, Modbus, SNMP, S7 max. 8 PLC)
- Mobile App and/or Web Service sessions (maximum allowed 5)
- Apogee P2 driver
- OPC DA Server
- BACnet Server

Clients:

- 3 clients (maximum 5)

Data points:

- 2'000 Building Automation data points included (maximum allowed 5'000)
- 500 SCADA data points included (maximum allowed 1'000)
- No Fire data points are included but can be ordered up to a maximum of 500
- No Electrical data points are included but can be ordered up to a maximum of 500
- No Meter data points are included but can be ordered up to a maximum of 30

Stock no.

Product no.

P55802-Y109-
A100

CCA-CMPXL-BA

Feature set for Desigo CC Compact Building Automation

CCA-CMPT-BA



The Desigo CC Compact Management Platform is a single point of entry for users to operate, monitor and optimize small and medium sized buildings. Desigo CC Compact can be installed either on one single standard computer, or in an embedded hardware PC, with full server and client functionality. Furthermore, Installed, Web, and Windows App Clients can also be added on separate hardware. Web interfaces provide the customer an increased flexibility for operation and future extensions, e.g. mobile applications for tablets and smart phones.

The feature set for Desigo CC Compact Building Automation includes the following:

Functionality:

- Event Management & Journaling
- Graphic Viewer
- Scheduler, time based reactions, macros
- Logics (events/COV based Reactions, Scripts)
- Trend Viewer
- Remote Notification (E-Mail, Pager, SMS)
- Reports
- Log Viewer
- Operator Tasks
- Advanced Reporting
- Datamate (Apogee tool)
- Long Term Storage & Archiving: Included 4 (max. 4) standard archive groups, 1 for each type of records (activities, events, incidents and values)

Connectivity:

- Standard drivers (Modbus, SNMP, S7 max. 8 PLC, KNX, M-Bus)
- Mobile App and/or Web Service sessions (maximum allowed 5)

Clients:

- 3 clients included (maximum 3)

Data points:

- 500 Building Automation data points included (maximum allowed 2'000)
- 500 SCADA data points included (maximum allowed 500)
- No Fire data points are included but can be ordered up to a maximum of 500
- No Electrical data points are included but can be ordered up to a maximum of 500
- No Meter data points are included but can be ordered up to a maximum of 30

	Stock no.	Product no.
	P55802-Y113-A100	CCA-CMPT-BA

Data points

Product Title	Stock no.	Product no.
Add 100 building automation data points	P55802-Y157-A412	CCA-100-BA
Add 500 building automation data points	P55802-Y157-A452	CCA-500-BA
Add 100 fire detection data points	P55802-Y158-A412	CCA-100-FIRE
Add 500 fire detection data points	P55802-Y158-A452	CCA-500-FIRE
Add 10 meter data points	P55802-Y152-A411	CCA-10-METER
Add 500 electrical data points	P55802-Y156-A452	CCA-500-ELEC

Options

Product Title	Stock no.	Product no.
e-Car integration option	P55802-Y139-A300	CCA-OP-ECAR
Flex BIM viewer	P55802-Y128-A300	CCA-OP-FLX-BIM
Graphic Editor option	P55802-Y127-A300	CCA-OP-GRAPH-ED
Apogee P2 driver	P55802-Y133-A300	CCA-P2-DRIVE

Building management**Desigo CC Platform****Desigo CC Compact for Building Automation****Options**

Product Title	Stock no.	Product no.
Reno plus option	P54593-Y195-A300	CCA-M-RENOPLUS
Add one integration token	P55802-Y180-A410	CCA-1-INT-TK
Upsell Desigo CC Compact BA to Desigo CC	P55802-Y113-A500	CCA-CMPT-BA-U

Feature set for Desigo CC Compact XL Building Automation

CCA-CMPXL-BA



The Desigo CC Compact Management Platform is a single point of entry for users to operate, monitor and optimize small and medium sized buildings. Desigo CC Compact can be installed either on one single standard computer, or in an embedded hardware PC, with full server and client functionality. Furthermore, Installed, Web, and Windows App Clients can also be added on separate hardware. Web interfaces provide the customer an increased flexibility for operation and future extensions, e.g. mobile applications for tablets and smart phones.

The feature set for Desigo CC Compact XL Building Automation includes the following

Functionality:

- Event Management & Journaling
- Graphic Viewer
- Scheduler, time based reactions, macros
- Trend Viewer
- Reports
- Log Viewer
- Graphic Editor
- Datamate (Apogee tool)
- Operator Tasks

Connectivity:

- Standard drivers (BACnet, OPC DA, Modbus, SNMP, S7 max. 8 PLC)
- Mobile App and/or Web Service sessions (maximum allowed 5)
- Apogee P2 driver
- OPC DA Server
- BACnet Server

Clients:

- 3 clients (maximum 5)

Data points:

- 2'000 Building Automation data points included (maximum allowed 5'000)
- 500 SCADA data points included (maximum allowed 1'000)
- No Fire data points are included but can be ordered up to a maximum of 500
- No Electrical data points are included but can be ordered up to a maximum of 500
- No Meter data points are included but can be ordered up to a maximum of 30

Stock no.

Product no.

P55802-Y109-
A100

CCA-CMPXL-BA

Building management

Desigo CC Platform

Desigo CC Compact for Danger Management

CCA-CMPT-DMS



Feature set for Desigo CC Compact Danger Management

The Desigo CC Compact Management Platform is a single point of entry for users to operate, monitor and optimize small and medium sized buildings. Desigo CC Compact can be installed either on one single standard computer, or in an embedded hardware PC, with full server and client functionality. Furthermore, Installed, Web, and Windows App Clients can also be added on separate hardware. Web interfaces provide the customer an increased flexibility for operation and future extensions, e.g. mobile applications for tablets and smart phones.

The feature set for Desigo CC Compact Danger Management includes the following

Functionality:

- Event Management & Journaling
- Graphic Viewer
- Scheduler, time based reactions, macros
- Logics (events/COV based Reactions, Scripts)
- Remote Notification (E-Mail, Pager, SMS)
- Reports
- Operator Tasks
- Assisted Treatment
- Fire brigade maps
- Advanced Reporting
- Long Term Storage & Archiving: Included 4 (max. 4) standard archive groups, 1 for each type of records (activities, events, incidents and values)

Connectivity:

- Standard drivers (Modbus, SNMP, S7 max. 8 PLC, M-Bus)
- Video connectivity to external VMS
- Mobile App and/or Web Service sessions (maximum 5)

Clients:

- 3 clients (maximum 3)

Data Points:

- 500 Fire data points (maximum allowed 2'000)
- 500 SCADA data points (maximum allowed 500)
- No Building Automation data points are included but can be ordered up to a maximum of 500
- No Security data points are included but can be ordered up to a maximum of 500
- No Video Camera data points are included but can be ordered up to a maximum of 128
- No Access Control Door data points are included but can be ordered up to a maximum of 128

	Stock no.	Product no.
	P55802-Y110-A100	CCA-CMPT-DMS

Data points

Product Title	Stock no.	Product no.
Add 100 building automation data points	P55802-Y157-A412	CCA-100-BA
Add 500 building automation data points	P55802-Y157-A452	CCA-500-BA
Add 100 fire detection data points	P55802-Y158-A412	CCA-100-FIRE
Add 500 fire detection data points	P55802-Y158-A452	CCA-500-FIRE
Add 6 security data points	P55802-Y102-A460	CCA-6-SEC
Add 100 security data points	P55802-Y102-A412	CCA-100-SEC
Add 500 security data points	P55802-Y102-A452	CCA-500-SEC
Add 16 external cameras	P55802-Y161-A401	CCA-V-16EXTC
Add 128 external cameras	P55802-Y161-A412	CCA-V-128EXTC
Add 16 embedded cameras	P55802-Y162-A401	CCA-V-16EMBC
Add 16 monitors	P55802-Y160-A401	CCA-V-16MON
Add 128 monitors	P55802-Y160-A412	CCA-V-128MON
Add 16 doors	P55802-Y164-A401	CCA-AC-16EXTD
Add 128 doors	P55802-Y164-A412	CCA-AC-128EXTD

Building management
 Desigo CC Platform
Desigo CC Compact for Danger Management

Options

Product Title	Stock no.	Product no.
e-Car integration option	P55802-Y139-A300	CCA-OP-ECAR
Flex BIM viewer	P55802-Y128-A300	CCA-OP-FLX-BIM
Graphic Editor option	P55802-Y127-A300	CCA-OP-GRAPH-ED
Video option Plus for embedded VMS	P55802-Y159-A300	CCA-V-PLUS
Reno plus option	P54593-Y195-A300	CCA-M-RENOPLUS
Add one integration token	P55802-Y180-A410	CCA-1-INT-TK
Upsell Desigo CC Compact Danger Management to Desigo CC	P55802-Y110-A500	CCA-CMPT-DMS-U

CCA-CMPT-VM



Feature set for Desigo CC Compact Validated Monitoring

The Desigo CC Compact Validated Monitoring, specific for Pharma and Life Sciences customers, is a single point of entry for users to operate, monitor and optimize small and medium sized buildings where a limited portion of the building automation system needs to be compliant to regional certifications, such as US FDA 21CFR Part 11, GMP Annex 11 or similar. Desigo CC Compact can be installed either on one single standard computer, or in an embedded hardware PC, with full server and client functionality. Furthermore, Installed, Web, and Windows App Clients can also be added on separate hardware. Web interfaces provide the customer an increased flexibility for operation and future extensions, e.g. mobile applications for tablets and smart phones.

The feature set for Desigo CC Compact Validated Monitoring includes the following

Functionality:

- Event Management & Journaling
- Graphic Viewer
- Scheduler, time-based reactions, macros
- Logics (events/COV based Reactions, Scripts)
- Trend Viewer
- Remote Notification (E-Mail, Pager, SMS)
- Reports
- Log Viewer
- Operator Tasks
- Assisted Treatment
- Advanced Reporting
- Pharma Export
- Datamate (Apogee tool)
- Long Term Storage & Archiving: Included 4 (max. 4) standard archive groups, 1 for each type of records (activities, events, incidents and values)

Connectivity:

- Standard drivers (Modbus, SNMP, S7 max. 8 PLC, M-Bus)
- Mobile App and/or Web Service sessions (maximum 5)

Clients:

- 3 clients (maximum 3)

Data Points:

- 100 Building Automation data points (maximum allowed 300)
- 100 Fire data points (maximum 100)
- 16 Access Control Door data points (maximum 16)
- 100 SCADA data points (maximum 100)
- 500 Validated Objects (maximum allowed 2'000)

	Stock no.	Product no.
	P55802-Y121-A100	CCA-CMPT-VM

Data points

Product Title	Stock no.	Product no.
Add 100 building automation data points	P55802-Y157-A412	CCA-100-BA
Add 100 validated data points	P55802-Y154-A412	CCA-100-VALID
Add 500 validated data points	P55802-Y154-A452	CCA-500-VAL

Options

Product Title	Stock no.	Product no.
e-Car integration option	P55802-Y139-A300	CCA-OP-ECAR
Flex BIM viewer	P55802-Y128-A300	CCA-OP-FLX-BIM
Graphic Editor option	P55802-Y127-A300	CCA-OP-GRAPH-ED
Apogee P2 driver	P55802-Y133-A300	CCA-P2-DRIVE

Building management
Desigo CC Platform
Desigo CC Compact for Validated Monitoring

Options

Product Title	Stock no.	Product no.
Reno plus option	P54593-Y195-A300	CCA-M-RENOPLUS
Add one integration token	P55802-Y180-A410	CCA-1-INT-TK
Upsell Desigo CC Compact Validated Monitoring to Desigo CC	P55802-Y121-A500	CCA-CMPT-VM-U

Building management

Desigo CC Platform

Desigo CC Compact for Electrical Applications

CCA-CMPT-ELEC



Feature set for Desigo CC Compact Electrical

Desigo CC™ Compact for Electrical Applications offers full integration of lighting and all other electrical assets through KNX protocol, while also supporting in the southbound open standards such as BACnet, OPC, Modbus, and many more. Options are available for dedicated, browser-based, and Windows desktop app clients using the same user interface. Additionally, web interfaces provide increased flexibility for operation and future extensions such as mobile applications for tablets and smartphones.

The feature set for Desigo CC Compact Electrical includes the following

Functionality:

- Event Management & Journaling
- Graphic Viewer
- Scheduler, time based reactions, macros
- Logics (events/COV based Reactions, Scripts)
- Trend Viewer
- Remote Notification (E-Mail, Pager, SMS)
- Reports
- Log Viewer
- Operator Tasks
- Advanced Reporting
- Datamate (Apogee tool)
- Long Term Storage & Archiving: Included 4 (max. 4) standard archive groups, 1 for each type of records (activities, events, incidents and values)

Connectivity:

- Standard drivers (KNX, BACnet, OPC, Modbus, SNMP, S7 max. 8 PLC, M-Bus)
- Integration Token (10 included)
- Mobile App and/or Web Service sessions (maximum 5)

Clients:

- 3 clients (maximum 3)

Data Points:

- 500 Electrical data points included, more points can be ordered
- No Building Automation points are included but can be ordered up to a maximum of 500
- No Fire data points are included but can be ordered up to a maximum of 500
- No SCADA data points are included but can be ordered up to a maximum of 500
- No meter data points are included but can be ordered up to a maximum of 30

Stock no.

Product no.

P55802-Y108-A100

CCA-CMPT-ELEC

Data points

Product Title	Stock no.	Product no.
Add 100 building automation data points	P55802-Y157-A412	CCA-100-BA
Add 500 building automation data points	P55802-Y157-A452	CCA-500-BA
Add 100 fire detection data points	P55802-Y158-A412	CCA-100-FIRE
Add 500 fire detection data points	P55802-Y158-A452	CCA-500-FIRE
Add 100 SCADA data points	P55802-Y124-A412	CCA-100-SCADA
Add 500 SCADA data points	P55802-Y124-A452	CCA-500-SCADA
Add 10 meter data points	P55802-Y152-A411	CCA-10-METER
Add 500 electrical data points	P55802-Y156-A452	CCA-500-ELEC
Add 5'000 electrical data points	P55802-Y156-A453	CCA-5000-ELEC
Add 30'000 electrical data points	P55802-Y156-A434	CCA-30000-ELEC
Add 100'000 electrical data points	P55802-Y156-A415	CCA-100000-ELEC

Building management
Desigo CC Platform
Desigo CC Compact for Electrical Applications

Options

Product Title	Stock no.	Product no.
e-Car integration option	P55802-Y139-A300	CCA-OP-ECAR
Flex BIM viewer	P55802-Y128-A300	CCA-OP-FLX-BIM
Graphic Editor option	P55802-Y127-A300	CCA-OP-GRAPH-ED
Apogee P2 driver	P55802-Y133-A300	CCA-P2-DRIVE
Reno plus option	P54593-Y195-A300	CCA-M-RENOPLUS
Add one integration token	P55802-Y180-A410	CCA-1-INT-TK
Upsell Desigo CC Compact ELEC to Desigo CC	P55802-Y108-A500	CCA-CMPT-ELEC-U

CCA-GW-FSET



Feature set for Desigo CC Connect

The Desigo CC™ Connect is one of the variants of the Desigo CC™ product family, specifically developed to integrate a variety of devices and protocols into a common software layer. It is designed among others to:

- Act as a software gateway between systems with different protocols
- Decentralize the computational power on the node level and inject additional intelligence
- Participate in the Internet of Things through open APIs and custom adapters

Desigo CC Connect can be installed either on one single standard computer, or in an embedded hardware PC.

The feature set for Desigo CC Connect includes the following:

Functionality:

- Scripting (not viewer)
- Trending (not viewer)
- Scheduling (not viewer)

Connectivity:

- Standard drivers (BACnet, OPC DA, Modbus, SNMP, S7 max. 8 PLC, KNX, M-Bus)
- SORIS Adapter
- Web Services Interface
- OPC DA Server
- BACnet Server
- NORIS Adapter

Data points:

Max. 1'000 data points in any combination:

- Building Automation
- Fire
- Security
- SCADA

Note: If more than 1'000 data points are required, multiple feature sets CCA-GW-FSET can be ordered.

	Stock no.	Product no.
	P55802-Y112-A100	CCA-GW-FSET

Options

Product Title	Stock no.	Product no.
e-Car integration option	P55802-Y139-A300	CCA-OP-ECAR
Flex BIM viewer	P55802-Y128-A300	CCA-OP-FLX-BIM
Simatic S7 connectivity to max. 64 PLC	P55802-Y135-A300	CCA-S7-CONN
Simatic S7 plus driver	P55802-Y137-A300	CCA-S7-PLUS
Apogee P2 driver	P55802-Y133-A300	CCA-P2-DRIVE
IEC 61850 driver	P55802-Y136-A300	CCA-IEC61850
Add one integration token	P55802-Y180-A410	CCA-1-INT-TK

Subscription Renewal (SUR)

A SUR order adds exactly one year to the current "Subscription Expiration Date".

Notes:

CCA-1-SUR-UNITs must be ordered with the quantity that corresponds to the "Site Value".

This value is shown in the following places:

- LMS Cockpit
- LMU License Management Utility
- License Node on Desigo CC

When the Subscription for a site expired more than 12 months ago, you will need to place two (or more) SUR orders or start a new subscription with a SUS order (CCA-1-SUS-UNIT).

CCA-1-SUR-UNIT



	Stock no.	Product no.
	P55802-Y900-B410	CCA-1-SUR-UNIT

Subscription Start (SUS)

A SUS order sets the "Subscription Expiration Date" to 1 year after the order independent of the current value. This starts an active subscription valid for the next 12 months.

Notes:

CCA-1-SUS-UNITs must be ordered with the quantity that corresponds to the "Site Value".

This value is shown in the following places:

- LMS Cockpit
- LMU License Management Utility
- License Node on Desigo CC

It may be cheaper to place multiple SUR orders (CCA-1-SUR-UNIT) instead of ordering SUS to get back to an active subscription.

CCA-1-SUS-UNIT



	Stock no.	Product no.
	P55802-Y900-C410	CCA-1-SUS-UNIT

Software protection dongle

Micro Dongle for Desigo CC software protection. It is mandatory for engineering licenses and optional for customer project licenses where also Trusted Store licenses (linked to the physical host machine) can be used.

CMD.06



	Stock no.	Product no.
	S55802-Y185	CMD.06

Desigo CC Online Software Delivery (OSD)

Software download for Desigo CC distribution packages.

CCA-..-SW



Range overview CCA-..-SW

Product Title	Stock no.	Product no.
Cerberus DMS Software Download	P55802-Y130-S202	CCA-DMS-EU-SW
Cerberus DMS Software Download	P55802-Y130-S203	CCA-DMS-AM-SW
Cerberus DMS Software Download	P55802-Y130-S204	CCA-DMS-MA-SW
Desigo CC Building Automation Software Download	P55802-Y130-S102	CCA-BA-EU-SW

New Product

Building management

Desigo CC Platform

Accessories and supplementary licenses

Range overview CCA-...-SW

Product Title	Stock no.	Product no.
Desigo CC Building Automation Software Download	P55802-Y130-S103	CCA-BA-AM-SW
Desigo CC Building Automation Software Download	P55802-Y130-S104	CCA-BA-MA-SW
Desigo CC Total Building Solution Software Download	P55802-Y130-S301	CCA-TBS-SW

CCA-ENG



Desigo CC Engineering license

The engineering license is intended for engineering staff that does configuration and commissioning of a system.

The engineering license:

- Is exclusively for use by solution partners and Siemens engineers.
- Cannot be sold to end-customers and is not allowed to be used for system operation by end-users.
- Is limited to 12 months. It can be renewed on an annual basis by reordering of the corresponding part number.
- Enables the software to run for a maximum of 48 hours of continuous operation, without any limitations on version, size, or options (with exception of connectivity for Simatic S7 plus and IEC 61850).
- Works with all software versions

Notes:

- Requires a CMD.04 Dongle. Trusted storage activation is not possible.
- Requires CCA-S7-PLUS licensed option for adding Simatic S7 plus connectivity.
- Requires CCA-IEC61850 licensed option for adding IEC 61850 connectivity.

	Stock no.	Product no.
	P55802-Y130-A100	CCA-ENG

CCA-STARTUP-BASE



Desigo CC Startup license

The Start-up license is provided to support start-up and commissioning of a new project, while deferring the initialization of the "Subscription Expiration Date".

The Start-up license

- enables the functionality of a feature set with all software options.
- requires the appropriate number of data point licenses for full operability.
- is not suitable for sites using a Compact Feature set.
- is valid for 2 months. Multiple Start-up licenses can be applied one after the other if needed.

Note: Requires CCA-STD-FSET license.

	Stock no.	Product no.
	P55802-Y131-A100	CCA-STARTUP-BASE

Desigo CC Demo license (valid for 12 months)

CCA-DEMO



For demos and for long-term tests a demo license is available.

The demo license is a customer license with a limited number of data points (not extendable):

- 200 BA data points
- 100 SCADA data points
- 50 Fire data points
- 50 Security data points
- 16 external doors
- 10 meter points
- 100 Electrical points
- 20 validated objects
- 8 monitors and 8 external cameras (VMS license not included)
- MNS: 100 recipients, 20'000 templates, 10 connectors

Activates all options including graphics editor and web services

Includes 2 clients

Includes 1 additional Archive group

Is valid for 12 months

Note: It is not allowed to use a demo license on a productive customer site.

	Stock no.	Product no.
	P55802-Y140-A100	CCA-DEMO

CFG3.F200



Desigo Optic CFG3.F200 Embedded Device Hardware

CFG3.F200 is the Desigo Optic embedded device that provides a lightweight solution for managing building automation system for buildings and facilities. An additional embedded points and histories license is required for operation.

The CFG3.F200 can support up to 5000 data points with 2000 points that can be trended.

Additional licensing is required to support point integration.

The robust industrial design of the CFG3.F200 ensures that the system remains constantly connected.

LED indication of activities and state

2-port Ethernet switch for LAN (incl. Daisy Chaining)

1-port Ethernet for WAN

Operating voltage AC 24 V or DC 24 V

Plug-in screw terminal blocks

Mounting on standard rails or on the wall

Note: Power supply enclosures and related accessories (DIN rail, wires and materials for the connected site) are not included.

Data sheet	A6V12891601
Operating voltage	AC 24 V -15 / +20 % (SELV / PELV) or AC 24 V Class 2 (US), 48...63 Hz DC 24 V -15 / +20 % (SELV / PELV) or DC 24 V Class 2 (US)
Power consumption	Power consumption AC: 16 VA Power consumption DC: 8 W
Communication	BACnet on UDP/IP, Modbus TCP/IP, KNX IP, Haystack over RESTful API, OPC UA, oBix, Sedona, and SQL.
Connection cable	100 m (330 ft)
Mounting	DIN rail Wall mounting
Degree of protection	Degree of protection of housing to EN 60529: Front parts in DIN cut-out=IP30 Terminal part=IP20
Dimensions (W x H x D)	124 x 144 x 74.5 mm, 4.88 x 5.67 x 2.93 in

Stock no.	Product no.
S55842-Z133	CFG3.F200

Embedded licences

Product Title	Stock no.	Product no.
Desigo Optic 100 point/20 histories license for embedded device	P55374-C312	FIN-00100-EMB
Desigo Optic 500 point/100 histories license for embedded device	P55374-C313	FIN-00500-EMB
Desigo Optic 1000 point/200 histories license for embedded device	P55374-C314	FIN-0001K-EMB
Desigo Optic 2000 point/400 histories license for embedded device	P55374-C315	FIN-0002K-EMB
Desigo Optic 5000 point/1000 histories license for embedded device	P55374-C316	FIN-0005K-EMB
Desigo Optic additional 10 histories embedded devices	P55374-C317	FINH-00010-EMB
Desigo Optic additional 100 histories embedded devices	P55374-C318	FINH-00100-EMB
Desigo Optic Device Manager Subscription	P55374-C387	FIN-OPTIC-CLOUD

Embedded maintenance licences

Product Title	Stock no.	Product no.
2 year maintenance for 500 point embedded license	P55374-C389	FIN-500-EMB-MAINT
2 year maintenance for 1000 point embedded license	P55374-C390	FIN-1K-EMB-MAINT
2 year maintenance for 2000 point embedded license	P55374-C392	FIN-2K-EMB-MAINT
2 year maintenance for 5000 point embedded license	P55374-C393	FIN-5K-EMB-MAINT
2 years maintenance for additional 10 embedded histories	P55374-C394	FINH-10-EMB-MAINT
2 years maintenance for additional 100 embedded histories	P55374-C395	FINH-100-EMB-MAINT

Server licences

Product Title	Stock no.	Product no.
Desigo Optic 100 point/20 histories license for server	P55374-C304	FIN-00100-S
Desigo Optic 500 point/100 histories license for server	P55374-C305	FIN-00500-S
Desigo Optic 1000 point/200 histories license for server	P55374-C306	FIN-0001K-S
Desigo Optic 2000 point/400 histories license for server	P55374-C307	FIN-0002K-S
Desigo Optic 5000 point/1000 histories license for server	P55374-C308	FIN-0005K-S
Desigo Optic 50,000 point/10,000 histories license for server	P55374-C310	FIN-0050K-S
Desigo Optic 100,000 point/20,000 histories license for server	P55374-C311	FIN-0100K-S
Desigo Optic additional 10 histories server	P55374-C274	FINH-00010
Desigo Optic additional 100 histories server	P55374-C275	FINH-00100
Desigo Optic additional 1000 histories server	P55374-C276	FINH-0001K
Desigo Optic additional 10,000 histories server	P55374-C278	FINH-0010K
Desigo Optic additional 50,000 histories server	P55374-C279	FINH-0050K
Desigo Optic demo/development license for 5000 points	P55374-C319	FIN-0005K-DEV
Desigo Optic demo/development license for 10,000 points	P55374-C320	FIN-0010K-DEV
Desigo Optic demo/development license for 50,000 points	P55374-C321	FIN-0050K-DEV
Desigo Optic demo/development license for 100,000 points	P55374-C322	FIN-0100K-DEV

Server maintenance licences

Product Title	Stock no.	Product no.
1 year maintenance for 100 point server license	P55374-C280	FIN-00100-MAINT
1 year maintenance for 500 point server license	P55374-C281	FIN-00500-MAINT
1 year maintenance for 1000 point server license	P55374-C282	FIN-0001K-MAINT
1 year maintenance for 5000 point server license	P55374-C283	FIN-0005K-MAINT
1 year maintenance for 100,000 point server license	P55374-C284	FIN-0010K-MAINT
1 year maintenance for 50,000 point server license	P55374-C285	FIN-0050K-MAINT
1 year maintenance for 100,000 point server license	P55374-C286	FIN-0100K-MAINT
1 year maintenance for additional 10 histories	P55374-C287	FINH-00010-MAINT
1 year maintenance for additional 100 histories	P55374-C288	FINH-00100-MAINT
1 year maintenance for additional 1000 histories	P55374-C289	FINH-0001K-MAINT
1 year maintenance for additional 5000 histories	P55374-C290	FINH-0005K-MAINT
1 year maintenance for additional 10,000 histories	P55374-C291	FINH-0010K-MAINT
1 year maintenance for additional 50,000 histories	P55374-C292	FINH-0050K-MAINT

New Product

Automation controls and operations



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2

Desigo PXC controllers - Optimize building efficiency with precise control throughout

Having an automated HVAC system is the key to ensure energy savings and reduced operations costs. Thus, making you complaint to standards and bringing your peace of mind. Siemens offers you the latest technology in building automation to combine high performance with ideal comfort.

Desigo PXC controllers – Shape the future of building automation

Explore the latest range of primary controllers to achieve a high-performing automation of your buildings. Designed to reduce the energy consumption of building plants, the Desigo PXC controllers enable you to integrate different protocols with no need of additional hardware or software and comes with a license-free engineering suite.



Desigo PXC4
HVAC controller



Desigo PXC7
HVAC controller



Desigo PXC5
Integration controller



TX-I/O
Extension I/O modules

- Seamless integration of different protocols
- License-free engineering suite with pre-configured application libraries
- Advanced connectivity with on-board WLAN and cloud remote access
- Built-in cybersecurity features and ready for BACnet Secure Connect

Learn more

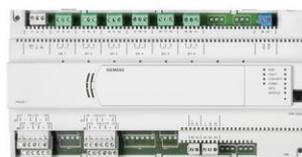


Desigo PX controllers – the trusted control range of the industry

The flexible, scalable and open controllers satisfy all building and application needs. They can be easily adapted to your needs and offer the highest reliability, thus ensuring maximum value.



Desigo PX Modular



Desigo PX Compact

Learn more



Desigo Control Point - Building operations at your fingertips

Desigo Control Point helps you to maximize room comfort, monitor and operate your primary plant and display your building data. It facilitates building operation by allowing you to access your buildings and plants via touch panels, PC or mobile device. The touch panels are available in different sizes for optimized user experience.

Desigo Control Point is designed to meet the requirements of different users in a building.

- Building operation and monitoring are enabled through intuitive touch panels on the control panel or via computer in the office. Through smart devices, users can also access related information anytime from any location.
- Occupants are able to optimize their rooms. Touch panels can be used as room operator units to control lighting, shading, and indoor climate.
- Building owners can present to tenants their energy savings to encourage them to save even more.
- Building operators and technicians can manage their daily tasks with no need for special training, thanks to straightforward installation and ease of operation.



BACnet touch panels

The BACnet/IP touch panels enable direct connections to any BACnet network



Client touch panels

When your project requires operation of the same system via multiple control panels, the TCP/IP touch panels are the right solution

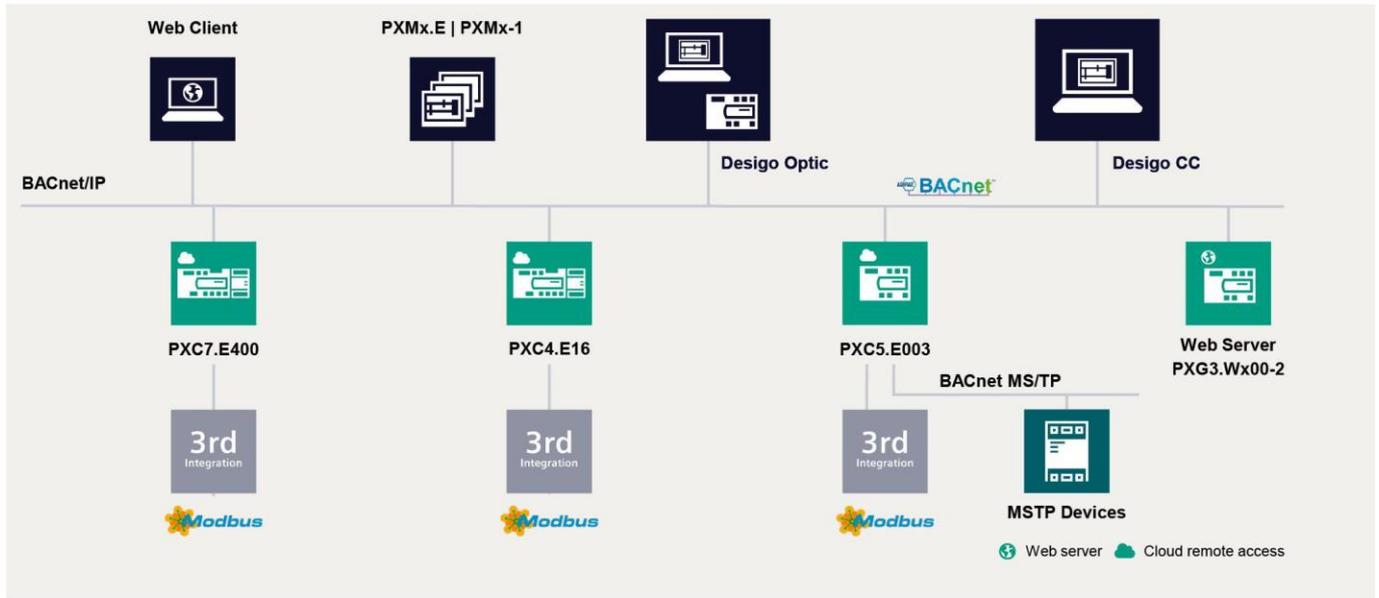


BACnet Web server

Desigo primary and room automation stations as well as third-party BACnet devices can be operated via BACnet/IP Web servers

Learn more





Desigo topology

Desigo system is a modern building automation and control system for the entire field of building service plants. Scalable from small to large projects with highest degree of energy efficiency, openness and user-friendly operation.

Desigo Control Point – designed to simplify operation and monitoring

Desigo Control Point is a consistent concept designed to simplify operation and monitoring of heating, ventilation, air conditioning, lighting, and shading in small or medium-sized buildings. It facilitates building operation and monitoring by allowing you to access your buildings and plants via touch panels, PC or mobile device – wherever you are. Whether it is for maximizing room comfort, monitoring and operating your primary plant or displaying your building data, Desigo Control Point is the answer.

Desigo PXC Automation Stations – the new generation of automation

The Desigo PXC4...7 range is the high-performing automation that transform your buildings into smart buildings. These buildings need to intelligently connect field devices, enable quick and easy engineering, be both open and secure at the same time, and provide all the information necessary to optimally manage a building. This calls for a new generation of controllers and it's time for Desigo PXC controllers to expand and strengthen the Desigo system.

These controllers are engineered with the license-free Desigo Engineering Framework and come with state-of-the-art technologies like on-board WLAN and cloud remote access along with strong, in-build security features. Despite the compact size, they come with plenty of I/Os and integration capabilities like Modbus that can be easily extended to meet the needs of specific projects.

Desigo PX Automation Stations – flexibility and openness

The Desigo PXC12...200 range of programmable automation stations for primary plants offers flexibility and consistent system openness. Desigo PX reliably performs all the tasks required of building technology. It has a modular system concept to make it a perfect match for the relevant requirements and needs. In smaller HVAC plants, too, it can be used to deploy DDC technology in a cost-effective way. In new buildings as well as modernization projects, this means it is necessary to invest only in the system components that are actually needed. The innovative system concept means that Desigo PX can be gradually scaled up to a large building automation system at any time. Desigo is consistent in its support of open communications, making it easy to connect a wide variety of building systems on the basis of standard open data interfaces.

Desigo PX Open and TX Open – scalable integration platforms

PX Open and TX Open offer a portfolio of solutions for simple and cost-effective integration of third-party systems and devices depending on the required process interaction and the number of data points.

- KNX® and LonWorks® to link room automation and secondary processes
- M-Bus, Modbus and other interfaces for universal connection of third-party devices and systems
- Simple ASCII protocols for RS232 or RS485 via PX SCL (Structured Control Languages)

Wide choice of applications for energy efficiency

The broad range of Desigo application libraries covers individual customer needs in a comprehensive manner.

Ready-to-use application solutions are available for generation, distribution and consumption. The different application libraries scale from simple control sequences up to highly sophisticated equipment controls. The sophisticated control strategies in our applications offer an optimized balance between energy efficiency and comfort.

Project engineering, service and commissioning

Professional software tools ensure efficient engineering, service and commissioning by graphical user interface and lots of analysis and reporting functions.

Years of experience

Siemens is one of the leaders in building automation and HVAC control worldwide. Our developments are based on the years of experience of our specialists. The result is the reliable and user-friendly automation system Desigo.

Highlights

- Universal use, thanks to modular system concept
- BACnet™ communication for maximum openness
- User-friendly operations for any location and functionality
- Years of experience in building automation

Breitenburger Milchzentrale, Itzehoe - Germany a modern and sustainable facility with increased efficiency of process steam generation..





PXC7.E

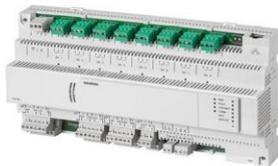
Overview of Desigo PXC - the new automation range						
	PXC4.E16S	PXC4.E16/ M16	PXC5.E003	PXC7.E400S	PXC7.E400M	PXC7.E400L
Number of data points via TX-I/O modules	40	40	–	100	200	400
Number of integration data points	–	40	500	100	200	400
Total TXM-I/O's + integration data points	40	80	500	100	250	600
Number of RS 485	–	1	2	1	2	4



PXC100.D

Overview of automation stations: Modular series				
	PXC00-E.D	PXC50-E.D	PXC100-E.D	PXC200-E.D
BACnet/IP	PXC00-E.D	PXC50-E.D	PXC100-E.D	PXC200-E.D
BACnet/LonTalk	PXC00.D	PXC50.D	PXC100.D	PXC200.D
Number of data points via TX-I/O modules	–	Up to 52	Up to 200	Over 200
Number of TX Open modules for e.g. Modbus, M-Bus	–	5	5	5
Number of LonWorks devices via PXX-Lx	60 or 120	10	60 ¹⁾ or 120 ¹⁾	60 ¹⁾ or 120 ¹⁾

1) In concurrent use with TX-I/O modules, the number of devices can be reduced in relation to capacity



PXC36.1-E.D

Overview of automation stations: Compact series				
	PXC12.D	PXC22.D	PXC22.1.D	PXC36.1.D
BACnet/LonTalk	PXC12.D	PXC22.D	PXC22.1.D	PXC36.1.D
BACnet/IP	PXC12-E.D	PXC22-E.D	PXC22.1-E.D	PXC36.1-E.D
I/Os onboard	12	22	22	36
UIO	8	16	16	24
DI	2	0	0	4
DO	2	6	6	8
Number of I/Os via TX-I/O modules	–	–	16	16
Number of TX Open modules	–	–	5	5



PXC001.D

System controller PX Open			
Type	PXC001.D PXC001-E.D	PXA40-RS1	PXA40-RS2

Interfaces

KNX	●	–	–
Serial RS232	●	–	–
Serial RS485	●	–	–

Network functions

Integration KNX	2000 DP	–	–
Integration M-Bus	250 DP	800 DP	2000 DP
Integration Modbus	250 DP	800 DP	2000 DP
Integration SCL	250 DP	800 DP	1000 DP



TXI2.OPEN

TX Open RS232/485 module	
Type	Description
TXI2.OPEN	TX Open RS232/485 module (up to 160 data points)
TXI2-S.OPEN	TX Open RS232/485 module (up to 40 data points)

Overview TX-I/O™ module range TXM1..

Type	TXM1.8D	TXM1.16D	TXM1.8U	TXM1.8U-ML	TXM1.8X	TXM1.8X-ML	TXM1.6R	TXM1.6R-M	TXM1.8P	TXM1.6RL	TXM1.8T
Number of I/Os	8	16	8	8	8	8	6	6	8	6	8
Functionality											
Local operation				•		•		•			
LC-Display				•		•					
3-color I/O status LED	•							•			
Green I/O status LED		•	•	•	•	•	•		•	•	•
Digital inputs (DI)											
Message signal (open/closer)	•	•	•	•	•	•					
Message impulse	•	•	•	•	•	•					
Counter 10 Hz (with debouncing)	•	1-8 ¹⁾									
Counter 25 Hz (with debouncing)			•	•	•	•					
Counter 100 Hz (bouncer free)			•	•	•	•					
Analog inputs (AI)											
LG-Ni1000			•	•	•	•			•		
Pt 1000/0...2500 Ohm			•	•	•	•			•		
T1			•	•	•	•					
DC 0...10 V			•	•	•	•			• ³⁾		
4...20 mA/0...20 mA					•	•			• ⁴⁾		
Analog outputs (AO)											
DC 0...10 V			•	•	•	•					
4...20 mA					5-8 ²⁾	5-8 ²⁾					
Digital outputs (DO)											
Continuous contact on/off							•	•			
Continuous contact, 3-stage							•	•			
3-stage output							•	•			
Impulse on/off, 3-stage							•	•			
Multistate							•	•			
Triac-continuous contact											•
Triac-impulse (3-stage)											•
Triac pulsewidth-modulated											•
Bistable contact										•	

1) On the TXM1.16D the counters are implemented only on the inputs 1 to 8
2) On the TXM1.8X.. the current exists 4...20 mA are implemented only on the I/Os 5 to 8

Remote IO Islands with integration	
Type	Description
TXA1.IBE	Easy-to-use solution with as simple adapter for remote TX-IO and TX Open. No programming/parameterization required



TXA1.IBE

2

Desigo Operation and Monitoring

Management station



Desigo CC

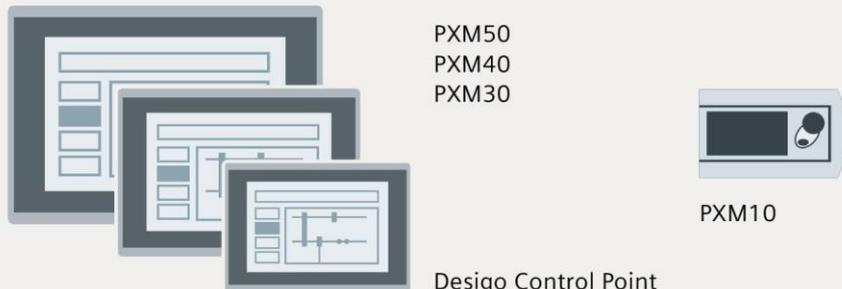
Desigo Optic

Web operation from anywhere



Desigo Control Point

Plant operation via touch panels and operator units



PXM50
PXM40
PXM30

PXM10

Desigo Control Point

Manual operation in the control panel



TX-I/O



PXG3.W200-2

Range overview web server	
Type	Description
PXG3.W100-2	BACnet/IP web server with standard Control Point functionality
PXG3.W200-2	BACnet/IP web server with extended Control Point functionality

Range overview touch panels and operator units	
Type	Description
PXM30.E PXM40.E, PXM50.E	Desigo Control Point BACnet touch panels with integrated data management and web server functionality: 7.0 " 10.1 ", 15.6 "
PXM30-1 PXM40-1, PXM50-1	Desigo Control Point Touch panel clients (TCP/IP) 7.0 " 10.1 ", 15.6 "
PXM10	Operator Unit
TXM1...ML TXM1...M	Manual operation in the control panel



PXM40



PXM10



TXM1.8U-ML

2 The Desigo Control Point product portfolio

BACnet touch panels

BACnet/IP touch panels can be connected directly to the BACnet network. Thanks to the embedded web server, it is possible to access the system using a standard web browser. No further web server is required for installation and operation.

Size/type	7"	10"	15"
BACnet/IP touch panels	PXM30.E	PXM40.E	PXM50.E



Client touch panels

The TCP/IP touch panels are used on projects that require multiple touch panels to operate the same system data from different locations. A centralized web server can have multiple touch panels or web browser sessions connected. This reduces the complexity and cost of larger installations.

Size/type	7"	10"	15"
TCP/IP touch panels	PXM30-1	PXM40-1	PXM50-1



BACnet web servers

The BACnet/IP web servers permit remote operation of primary and room automation stations as well as third-party BACnet/IP devices. The two variants – standard and extended – provide different functionality according to the project's requirements.

Type	Standard	Extended
BACnet web servers	PXG3.W100-2	PXG3.W200-2





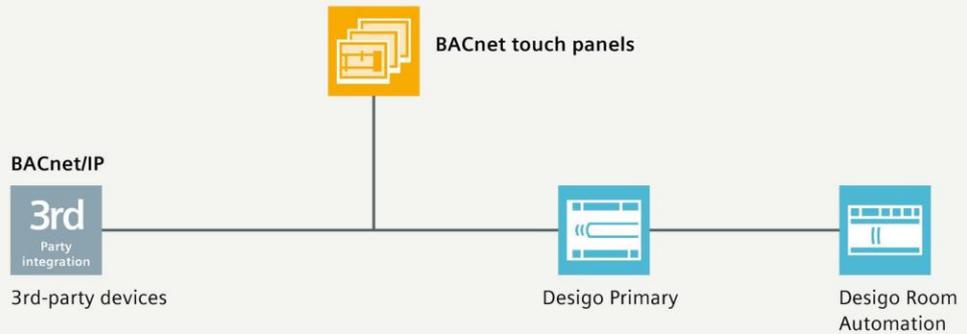
Tested quality
 BACnet® Testing Laboratories (BTL) is a registered trademark. Products that were successfully tested by BACnet Testing Laboratories, like Desigo Control Point, are allowed to carry the BTL trademark.



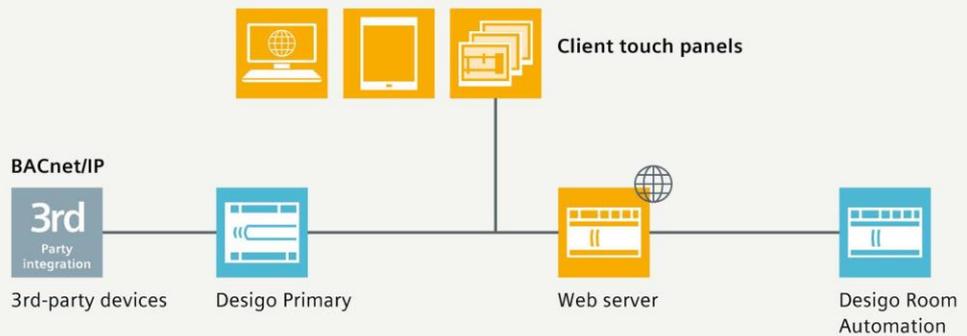
Ready for BIM data
 Siemens provides BIM data, which is regularly updated. Desigo Control Point devices are also available in the REVIT library.

Desigo Control Point is an operation and motoring opportunity that comprises touch panels and web servers in three basic topologies:

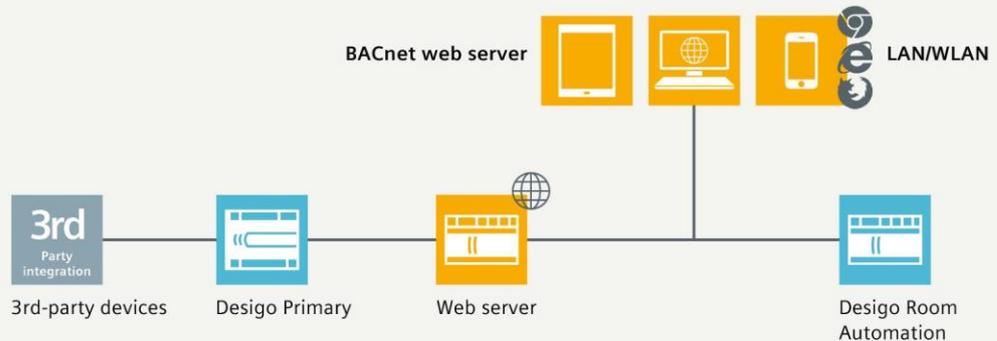
1. BACnet touch panels



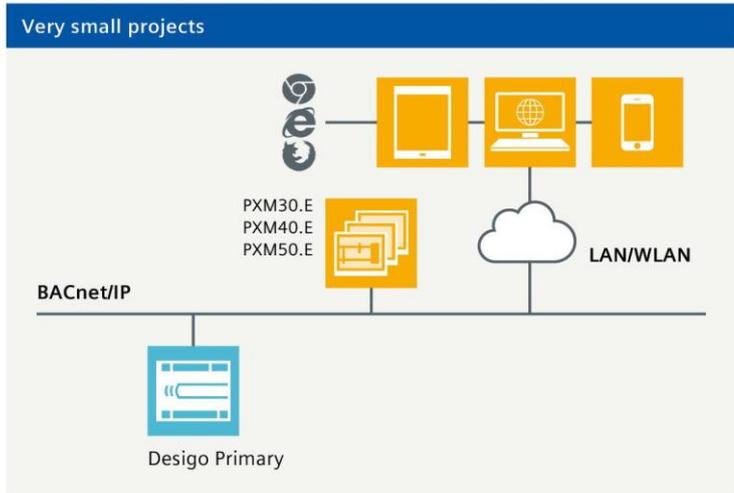
2. Client touch panels



3. BACnet web server



Desigo Control Point topologies

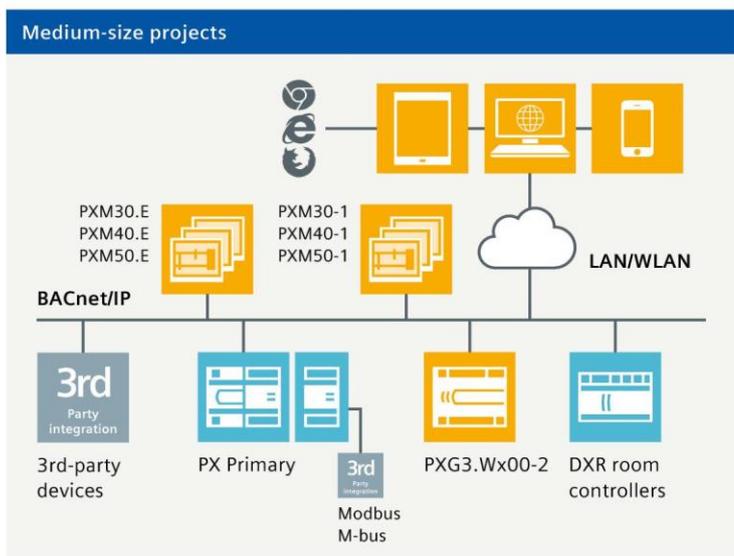


Project requirements

- Small heating or air handling system (e.g. with 50 data points)
- Additional web access for remote operation
- Operating unit for on-site plant operation

Desigo Control Point offering

- Touch panel PXMxx.E for on-site operation
- Remote access via embedded web server on PXMxx.E, therefore no extra costs for web operation

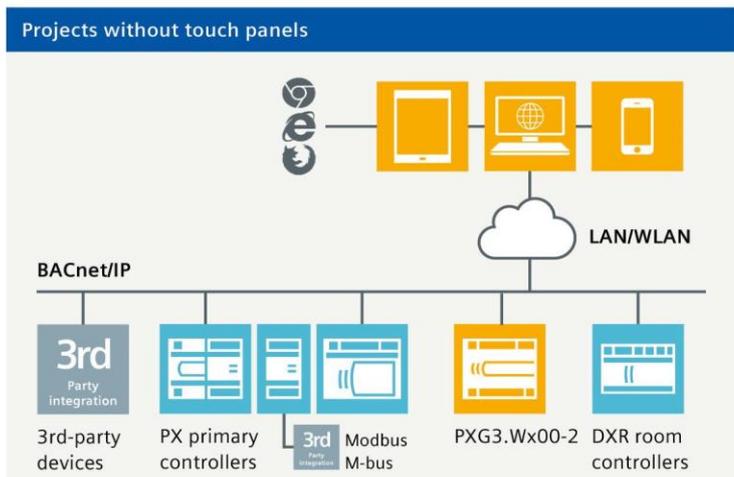


Project requirements

- Multiple heating plant and/or air handling units
- Automatic operation of multiple rooms
- BACnet devices from 3rd parties
- Integration of 3rd-party devices
- Multiple operating units on-site
- Web access for remote operation

Desigo Control Point offering

- Centralized web server PXG3.Wx00-2 for remote web operation
- PXMxx-1 connected to PXG3.Wx00-2 for local touch panel operation



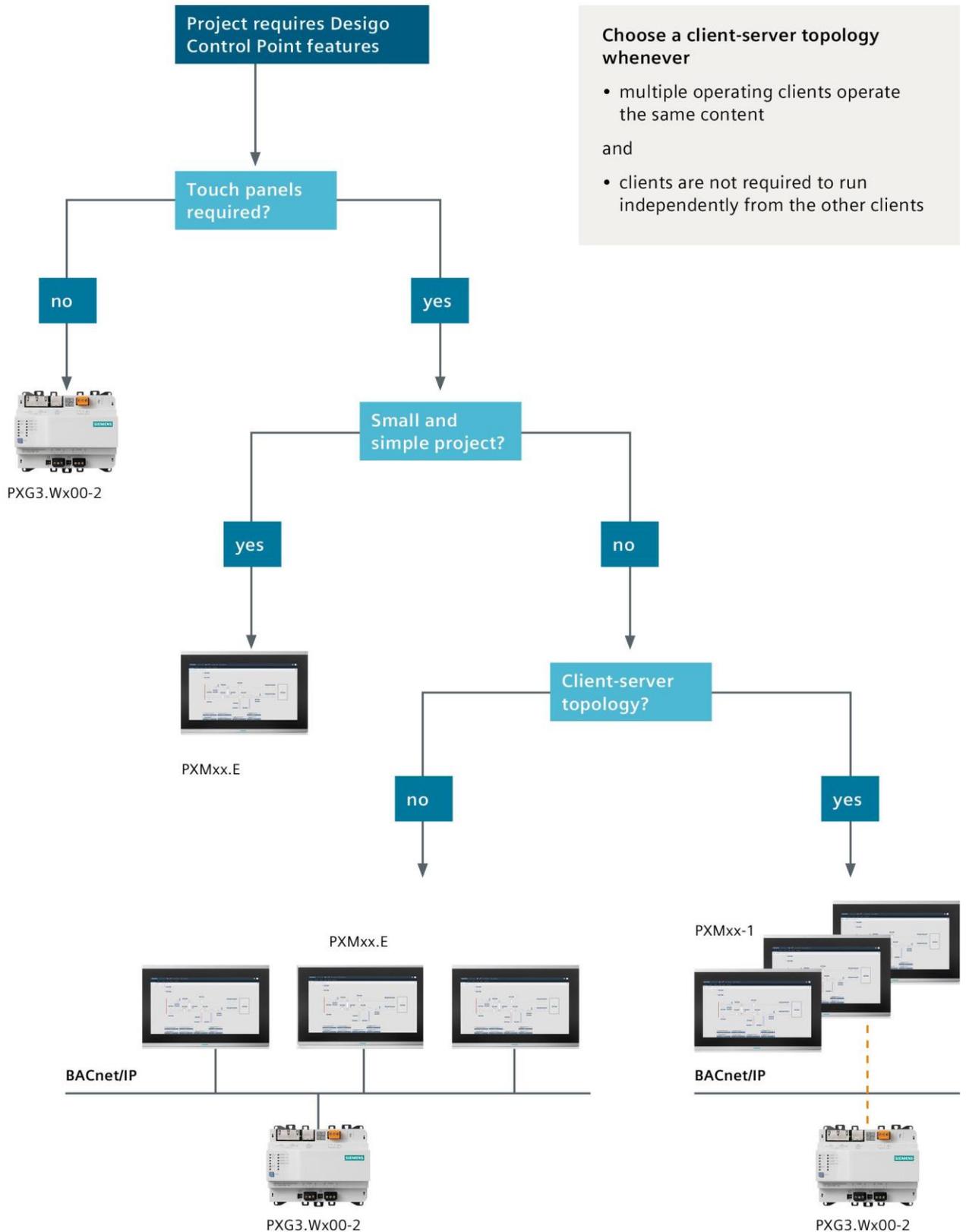
Project requirements

- Multiple heating plant and/or air handling units
- Automatic operation of multiple rooms
- BACnet device from 3rd parties
- Integration of 3rd-party devices
- No operating units on-site, operating units from 3rd parties, or, e.g., only PXM10
- Web access for remote operation

Desigo Control Point offering

- Centralized web server PXG3.Wx00-2 for remote web operation

How to choose the right topology – a decision workflow



2 Overview of features and device limits

Features	Touch panel TCP/IP	Touch panel BACnet/IP	Web interface BACnet/IP	
	PXM50-1 PXM40-1 PXM30-1	PXM50.E PXM40.E PXM30.E	PXG3.W100-2	PXG3.W200-2
Tool-free commissioning – plug & play	•	•	•	•
Generic operation of all objects/properties		•	•	•
Operation of Desigo Primary, room controllers and 3rd-party controllers		•	•	•
User administration (add, delete, change)		•	•	•
User access rights on data point level		•	•	•
Alarm viewer		•	•	•
Alarming and event history		•	•	•
Alarm routing to email recipients		•	•	•
Trend view		•	•	•
Scheduler operation		•	•	•
Heating curve		•	•	•
Animated graphics (plants, rooms, floors, etc.)		•	•	•
Embedded web server for remote access		•	•	•
Graphic engineering online via desktop web browser		•	•	•
Trend data export – manually		•	•	•
Haystack interface			•	•
Energy dashboards				•
Trend data export – automatically				•
System status report				•

Features	Touch panel TCP/IP	Touch panel BACnet/IP	Web interface BACnet/IP	
	PXM50-1 PXM40-1 PXM30-1	PXM50.E PXM40.E PXM30.E	PXG3.W100-2	PXG3.W200-2
Generic data point operation	n.a.	All data points of all assigned devices		
Alarming	n.a.	All data points of all assigned devices		
Graphical operation (BACnet objects)	n.a.	500	1,000	2,000
Haystack interface (BACnet objects)	n.a.	500	1,000	2,000
Online trends	n.a.	20	20	50
Graphics (average complexity)	n.a.	20	20	50

BACnet/ IP Web Interface PXG3..-2

PXG3..-2



Web-based, graphical operation of BACnet devices using Desigo PXM touch panels and devices with an HTML 5.0 web browser.

- Simultaneous access by various operator units
- Central administration of graphics and data for other operating views
- Commissioning and engineering with ABT Site
- Up and download configuration data over the IP interface
- LED indication for Ethernet link and activity
- 2-port Ethernet switch for low-cost cabling (10Base-T/100Base-Tx)
- Operating voltage AC 24 V or DC 24 V
- Plug-in screw terminal block for supply
- Mounting on DIN rail

Data sheet	A6V12304192
Operating voltage	AC 24 V DC 24 V
Frequency	50/60 Hz
Communication	BACnet / IP
Degree of protection	IP20
Weight (net)	0.3 kg
Dimensions (W x H x D)	144 x 124 x 74.5 mm

Range overview PXG3..-2

Product Title	Stock no.	Product no.
BACnet / IP Web Interface with standard functionality	S55842-Z140	PXG3.W100-2
BACnet/ IP Web Interface with extended functionality	S55842-Z141	PXG3.W200-2

BACnet/IP Touch Panels Desigo Control Point with integrated web server

PXM..E Control Point



High-quality touch panels for technical on-site operation of plants as well as room operation.

- Optimized for local on-site operation of the Desigo building automation and control system
- Touch panels have an integrated web server and BACnet/IP communication
- Generic operation and monitoring of plant functions
- Offline engineering of customized graphics with ABT site
- Compact design featuring a low installation depth for mounting in panel doors
- Wall mounting with installation frames for PXM40... and PXM50... (ordered separately)
- LED to display alarms on an inactive screen

Data sheet	A6V11664137
Operating voltage	AC 24 V DC 24 V
Frequency	50/60 Hz
Display	Capacitive touch panel
Mounting	In panel doors Wall mounting
Degree of protection	IP54 / IP20

Typeoverview PXM..E Control Point

Product Title	Stock no.	Product no.
BACnet/ IP Touch Panel 7.0" with integrated web server	S55623-H128	PXM30.E
BACnet/ IP Touch Panel 10.1" with integrated web server	S55623-H129	PXM40.E
BACnet/ IP Touch Panel 15.6" with integrated web server	S55623-H130	PXM50.E

PXM..-1 Control Point



TCP/IP Touch Panels with embedded web browser

High-quality touch panels for technical on-site operation of plants as well as room operation.

- Embedded web browsers for communicating with HTML5.0 capable web servers
- Compact design featuring a low installation depth for mounting in panel doors
- Wall mounting with installation frames for PXM40... and PXM50... (ordered separately)
- Tool-free commissioning

Data sheet	A6V11664139
Operating voltage	AC 24 V
	DC 24 V
Frequency	50/60 Hz
Display	Capacitive touch panel
Mounting	In panel doors
	Wall mounting
Degree of protection	IP54 / IP20

Range overview PXM..-1 Control Point

Product Title	Stock no.	Product no.
Touch panel client 7.0"	S55623-H131	PXM30-1
Touch panel client 10.1"	S55623-H132	PXM40-1
Touch panel client 15.6"	S55623-H133	PXM50-1

Mounting kits

Product Title	Data sheet	Stock no.	Product no.
Mounting-kit for PXM30.E, PXM30-1 (surface mounting)	A6V11646070	S55842-Z123	PXA.S30
Wall-mount frame for PXM40.E, PXM40-1	A6V10933114	S55842-Z119	PXA.V40
Wall-mount frame for PXM50.E, PXM50-1	A6V10933114	S55842-Z120	PXA.V50

PXC4.E16



Automation Station, 16 Input/Outputs, Modbus, BACnet/IP

Freely programmable automation station for HVAC and building service plants.

- System functions (alarming, scheduling, trending, access protection)
- Freely programmable (close resemblance to CEN standard 11312). All function blocks, available in libraries, can be graphically connected.
- Total 16 onboard IO's: 12 universal input/outputs and 4 relay outputs
- Allows for the direct connection of I/O modules TXM. Up to 4 TXM modules (depending on the type) can be powered directly. Maximal number of inputs and outputs (onboard and TXM) is 40.
- Integration of up to 40 Modbus data points
- Direct connection of field devices; the automation station provides power supply for inputs and outputs as well as for active sensors.
- Battery free: Energy reserve (Supercap) to support real-time clock (7 days)
- Engineering and commissioning with the user-friendly tool ABT Site using graphical function charts
- Generic object viewer for device local datapoints via an embedded web interface
- BTL tested BACnet communication on IP (BACnet/IP and BACnet/SC) or BACnet MS/TP, in compliance with the BACnet standard including B-BC profile (Rev. 1.15)
- BACnet secure communication
- WLAN interface for engineering and commissioning

Compatible I/O extension modules:

- TXM1.8D
- TXM1.16D
- TXM1.8U
- TXM1.8U-ML
- TXM1.8X
- TXM1.8X-ML
- TXM1.6R
- TXM1.6R-M
- TXM1.8P
- TXM1.8T
- TXM1.4D3R

Operating voltage	AC 24 V
Communication	BACnet/IP, BACnet/SC
Relay outputs, number	4
Universal inputs/outputs, number	12
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	198 x 124 x 71 mm

Stock no.	Product no.
S55375-C100	PXC4.E16

PXC4.E16S



Automation Station, 16 Input/Outputs, BACnet/IP

Freely programmable automation station for HVAC and building service plants.

- System functions (alarming, scheduling, trending, access protection)
- Freely programmable (close resemblance to CEN standard 11312). All function blocks, available in libraries, can be graphically connected.
- Total 16 onboard IO's: 12 universal input/outputs and 4 relay outputs
- Allows for the direct connection of I/O modules TXM. Up to 4 TXM modules (depending on the type) can be powered directly. Maximal number of inputs and outputs (onboard and TXM) is 40.
- Direct connection of field devices; the automation station provides power supply for inputs and outputs as well as for active sensors.
- Battery free: Energy reserve (Supercap) to support real-time clock (7 days)
- Engineering and commissioning with the user-friendly tool ABT Site using graphical function charts
- Generic object viewer for device local datapoints via an embedded web interface
- BTL tested BACnet communication on IP (BACnet/IP and BACnet/SC) or BACnet MS/TP, in compliance with the BACnet standard including B-BC profile (Rev. 1.15)
- BACnet secure communication
- WLAN interface for engineering and commissioning

Compatible I/O extension modules:

- TXM1.8D
- TXM1.16D
- TXM1.8U
- TXM1.8U-ML
- TXM1.8X
- TXM1.8X-ML
- TXM1.6R
- TXM1.6R-M
- TXM1.8P
- TXM1.8T
- TXM1.4D3R

Operating voltage	AC 24 V
Communication	BACnet/IP, BACnet/SC
Relay outputs, number	4
Universal inputs/outputs, number	12
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	198 x 124 x 70.5 mm

Stock no.	Product no.
S55375-C108	PXC4.E16S

PXC4.M16



Automation Station, 16 Input/Outputs, Modbus, BACnet MS/TP

Freely programmable automation station for HVAC and building service plants.

- System functions (alarming, scheduling, trending, access protection)
- Freely programmable (close resemblance to CEN standard 11312). All function blocks, available in libraries, can be graphically connected.
- Total 16 onboard IO's: 12 universal input/outputs and 4 relay outputs
- Allows for the direct connection of I/O modules TXM. Up to 4 TXM modules (depending on the type) can be powered directly. Maximal number of inputs and outputs (onboard and TXM) is 40.
- Integration of up to 40 Modbus data points
- Direct connection of field devices; the automation station provides power supply for inputs and outputs as well as for active sensors.
- Battery free: Energy reserve (Supercap) to support real-time clock (7 days)
- Engineering and commissioning with the user-friendly tool ABT Site using graphical function charts
- BTL tested BACnet communication on MS/TP, in compliance with the BACnet standard including B-BC profile (Rev. 1.15)
- WLAN interface for engineering and commissioning

Compatible I/O extension modules:

- TXM1.8D
- TXM1.16D
- TXM1.8U
- TXM1.8U-ML
- TXM1.8X
- TXM1.8X-ML
- TXM1.6R
- TXM1.6R-M
- TXM1.8P
- TXM1.8T
- TXM1.4D3R

Operating voltage	AC 24 V
Communication	BACnet MS/TP
Relay outputs, number	4
Universal inputs/outputs, number	12
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	198 x 124 x 71 mm

Stock no.	Product no.
S55375-C101	PXC4.M16

PXC4.M16S



Automation Station, 16 Input/Outputs, BACnet MS/TP

Freely programmable automation station for HVAC and building service plants.

- System functions (alarming, scheduling, trending, access protection)
- Freely programmable (close resemblance to CEN standard 11312). All function blocks, available in libraries, can be graphically connected.
- Total 16 onboard IO's: 12 universal input/outputs and 4 relay outputs
- Allows for the direct connection of I/O modules TXM. Up to 4 TXM modules (depending on the type) can be powered directly. Maximal number of inputs and outputs (onboard and TXM) is 40.
- Direct connection of field devices; the automation station provides power supply for inputs and outputs as well as for active sensors.
- Battery free: Energy reserve (Supercap) to support real-time clock (7 days)
- Engineering and commissioning with the user-friendly tool ABT Site using graphical function charts
- BTL tested BACnet communication on MS/TP, in compliance with the BACnet standard including B-BC profile (Rev. 1.15)
- WLAN interface for engineering and commissioning

Compatible I/O extension modules:

- TXM1.8D
- TXM1.16D
- TXM1.8U
- TXM1.8U-ML
- TXM1.8X
- TXM1.8X-ML
- TXM1.6R
- TXM1.6R-M
- TXM1.8P
- TXM1.8T
- TXM1.4D3R

Operating voltage	AC 24 V
Communication	BACnet MS/TP
Relay outputs, number	4
Universal inputs/outputs, number	12
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	198 x 124 x 71 mm

Stock no.	Product no.
S55375-C109	PXC4.M16S

Integration Controller for BACnet/IP, BACnet/SC

PXC5.E003



2

Freely programmable system controller.

- System functions (alarming, scheduling, trending, access protection)
- Freely programmable (close resemblance to CEN standard 11312). All function blocks, available in libraries, can be graphically connected.
- Integration of up to 500 Modbus data points
- Integration of up to 60 BACnet MS/TP devices
- Energy reserve (Supercap) to support real-time clock (7 days)
- Energy reserve can be extended using optional battery CR2032: Typically up to 10 years (depending the life of the battery)
- Engineering and commissioning with the user-friendly tool ABT Site using graphical function charts
- BTL tested BACnet communication on MS/TP (BACnet/IP and BACnet/SC) or BACnet MS/TP, in compliance with the BACnet standard including B-BC profile (Rev. 1.15)
- BACnet secure communication
- WLAN interface for engineering and commissioning

Operating voltage	AC 24 V
Communication	BACnet/IP, BACnet/SC
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	144 x 124 x 71 mm

Stock no.	Product no.
S55375-C103	PXC5.E003

PXC7.E400L



Automation Station, BACnet/IP, BACnet/SC, 400 data points

Freely programmable automation station for HVAC and building service plants.

- Modular automation station and system controller for HVAC and building services systems
- Comprehensive management and system functions
- Freely programmable (close resemblance to CEN standard 11312). All function blocks, available in libraries, can be graphically connected.
- Allows for the direct connection of I/O modules TXM. Up to a load of 300 mA can be powered directly.
- Integrates up to 400 Modbus RTU and/or Modbus TCP data points or subsystems
- Integrates up to 240 BACnet MS/TP devices
- Web interface
- Remote access via Cloud
- Energy reserve (Supercap) to support real-time clock (7 days)
- Engineering and commissioning with the user-friendly tool ABT Site using graphical function charts
- BTL tested BACnet communication on IP (BACnet/IP and BACnet/SC) or BACnet MS/TP, in compliance with the BACnet standard including B-BC profile (Rev. 1.15)
- WLAN interface for engineering and commissioning

Compatible I/O extension modules:

- TXM1.8D
- TXM1.16D
- TXM1.8U
- TXM1.8U-ML
- TXM1.8X
- TXM1.8X-ML
- TXM1.6R
- TXM1.6R-M
- TXM1.8P
- TXM1.8T
- TXM1.4D3R

Data sheet	A6V12505052
Operating voltage	AC/DC 24 V
Communication	BACnet/IP
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	198 x 124 x 71 mm

Stock no.	Product no.
S55375-C105	PXC7.E400L

Automation Station, BACnet/IP, BACnet/SC, 200 data points



Freely programmable automation station for HVAC and building service plants.

- Modular automation station and system controller for HVAC and building services systems
- Comprehensive management and system functions
- Freely programmable (close resemblance to CEN standard 11312). All function blocks, available in libraries, can be graphically connected.
- Allows for the direct connection of I/O modules TXM. Up to a load of 300 mA can be powered directly.
- Integrates up to 200 Modbus RTU and/or Modbus TCP data points or subsystems
- Integrates up to 120 BACnet MS/TP devices
- Web interface
- Remote access via Cloud
- Energy reserve (Supercap) to support real-time clock (7 days)
- Engineering and commissioning with the user-friendly tool ABT Site using graphical function charts
- BTL tested BACnet communication on IP (BACnet/IP and BACnet/SC) or BACnet MS/TP, in compliance with the BACnet standard including B-BC profile (Rev. 1.15)
- WLAN interface for engineering and commissioning

Compatible I/O extension modules:

- TXM1.8D
- TXM1.16D
- TXM1.8U
- TXM1.8U-ML
- TXM1.8X
- TXM1.8X-ML
- TXM1.6R
- TXM1.6R-M
- TXM1.8P
- TXM1.8T
- TXM1.4D3R

Data sheet	A6V12505052
Operating voltage	AC/DC 24 V
Communication	BACnet/IP
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	198 x 124 x 71 mm

Stock no.	Product no.
S55375-C110	PXC7.E400M

PXC7.E400S



Automation Station, BACnet/IP, BACnet/SC, 100 data points

Freely programmable automation station for HVAC and building service plants.

- Modular automation station and system controller for HVAC and building services systems
- Comprehensive management and system functions
- Freely programmable (close resemblance to CEN standard 11312). All function blocks, available in libraries, can be graphically connected.
- Allows for the direct connection of I/O modules TXM. Up to a load of 300 mA can be powered directly.
- Integrates up to 100 Modbus RTU and/or Modbus TCP data points or subsystems
- Integrates up to 60 BACnet MS/TP devices
- Web interface
- Remote access via Cloud
- Energy reserve (Supercap) to support real-time clock (7 days)
- Engineering and commissioning with the user-friendly tool ABT Site using graphical function charts
- BTL tested BACnet communication on IP (BACnet/IP and BACnet/SC) or BACnet MS/TP, in compliance with the BACnet standard including B-BC profile (Rev. 1.15)
- WLAN interface for engineering and commissioning

Compatible I/O extension modules:

- TXM1.8D
- TXM1.16D
- TXM1.8U
- TXM1.8U-ML
- TXM1.8X
- TXM1.8X-ML
- TXM1.6R
- TXM1.6R-M
- TXM1.8P
- TXM1.8T
- TXM1.4D3R

Data sheet	A6V12505052
Operating voltage	AC/DC 24 V
Communication	BACnet/IP
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	198 x 124 x 71 mm

Stock no.	Product no.
S55375-C111	PXC7.E400S

Remote Tool and Web Access Free Trial, 6 months

CLD.RA.TRL

Overview

This Service offers you remote tool- and web access to the cloud connected controller. The new family of Desigo PXC4, PXC5 and PXC7 controller have a secured native cloud connection, no additional gateway is required.

- Remote tool access with ABT Site to the Desigo controller PXC4, PXC5 and PXC7
- Remote web access to the Desigo controller PXC4, PXC5 and PXC7 web interface
- User-, site- and device administration of your company

Free Trial

New customers of the Service may start with a free of charge trial up to 6 months to test the Service offering. The free of charge trial Service offers full functionality of the Service for one site. During the free trial period, you can continue to use the Service by upgrading to the Standard Subscription Plan. The free of charge trial Service will expire automatically. An extension or a restart of the free of charge trial Service is not possible. No refund of efforts or material is provided in case you decide to discontinue the use of the Service after expiry of free of charge trial. The hardware required for the free of charge trial Service must be separately procured and is not specifically included as part of a free of charge trial.

Contractual documents

To be eligible to use this Service, it is required that your company signs a Master Order Form for usage of Digital Services with your local Siemens entity. This Master Order Form is tied into the "Digital Service Agreement" (DSA) together with this "Product and Service Data Sheet" (PSDS) which is the Specification Document for this Service and any further Exhibits to the foregoing. All the above-mentioned documents make up the contractual documents.

More information about contract documents posted at <https://www.siemens.com/si/cloud/terms>

Connected devices

This Service is currently only compatible with the models of Siemens controller PXC4.E16 and PXC5.E003 made commercially available under the brand name Desigo. Accordingly, to implement this Service, a connected device must be purchased and installed on premise at a site specified by you. You will be responsible for such installation of the connected devices at the site and any associated costs to perform such service in accordance with related documentation for the device.

	Stock no.	Product no.
	P55811-Y111-A100	CLD.RA.TRL

CLD.RA.STD

Remote Tool and Web Access, 1 year

Overview

This Service offers you remote tool- and web access to the cloud connected controller. The new family of Desigo PXC4 and PXC5 controller have a secured native cloud connection, no additional gateway is required.

- Remote tool access with ABT Site to the Desigo controller PXC4 and PXC5
- Remote web access to the Desigo controller PXC4 and PXC5 web interface
- User-, site- and device administration of your company

Subscription

The Standard Subscription plan is the regular, scalable offering to use this Service. The Service Fee must be paid up front. The Subscription Term is for one year, starting with the user defined date during activation.

- Remote Tool- and Web Access to 1 Site
- Up to 10 devices
- Subscription for 1 year

Renewal

The Subscription Term is renewable by repeating the purchase procedure under the Master Order Form for Digital Services you previously executed with Siemens.

Contractual documents

To be eligible to use this Service, it is required that your company signs a Master Order Form for usage of Digital Services with your local Siemens entity. This Master Order Form is tied into the "Digital Service Agreement" (DSA) together with the "Product and Service Data Sheet" (PSDS) which is the Specification Document for this Service and any further Exhibits to the foregoing. All the above-mentioned documents make up the contractual documents.

More information about contract documents posted at <https://www.siemens.com/si/cloud/terms>

Connected devices

This Service is currently only compatible with the models of Siemens controller PXC4.E16 and PXC5.E003 made commercially available under the brand name Desigo. Accordingly, to implement this Service, a connected device must be purchased and installed on premise at a site specified by you. You will be responsible for such installation of the connected devices at the site and any associated costs to perform such service in accordance with related documentation for the device.

	Stock no.	Product no.
	P55811-Y110-A100	CLD.RA.STD

Automation station, compact series

PXC..D

Compact, freely programmable automation stations for HVAC and building services plant. The fixed data point mix makes the automation stations ideal for commonly used applications with standard signals.

- Direct connection of field devices
- Management functions (alarm management, scheduler programs, trend functions, remote management, access protection, etc.)
- Standalone application or for use with linked system or devices
- Connection of the PXM.. operator unit
- Connection of QAX.. room units
- BTL tested BACnet communication on LonTalk, PTP or IP according to BACnet standard (rev 1.12 - as of Desigo V6.0) include B-BC profile
- AMEV profiles AS-A and AS-B according to guide line "BACnet 2011 - Version 1.2 (as of Desigo V6.0)"

Data sheet	N9215
Operating voltage	AC 24 V
Frequency	50/60 Hz
Communication	Bus: BACnet / LonTalk, PTP (point to point) or IP Room unit: PPS2
Digital input, contact query	7 mA DC 20...25 V
Relay outputs	Monostable, changeover contact
Universal inputs/outputs	Configurable software
Degree of protection	IP20

Automation station with 12 data points and BACnet on LonTalk

PXC12.D

Fixed data point mix for 12 physical data points per automation station UIO=8, DI=2, DO=2 and uses BACnet on LonTalk communication.

Data sheet	N9215
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Stock no.	Product no.
BPZ:PXC12.D	PXC12.D

Automation station with 12 data points and BACnet on IP

PXC12-E.D

Fixed data point mix for 12 physical data points per automation station UIO=8, DI=2, DO=2 and uses BACnet on IP communication.

Data sheet	N9215
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Stock no.	Product no.
BPZ:PXC12-E.D	PXC12-E.D

Automation station with 22 data points, extendable and BACnet on LonTalk

PXC22.1.D

Fixed data point mix for 22 physical data points per automation station UIO=16, DO=6. Extendable with TX-I/O and / or TX Open. Uses BACnet on LonTalk communication.

Data sheet	N9215
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Stock no.	Product no.
S55372-C118	PXC22.1.D

Automation controls and operations
Automation stations PXC12...PXC200
Compact series PXC12..D / PXC22..D / PXC36..D

2

PXC22.1-E.D



Automation station with 22 data points, extendable and BACnet on IP

Fixed data point mix for 22 physical data points per automation station UIO=16, DO=6. Extendable with TX-I/O and / or TX Open. Uses BACnet on IP communication.

Data sheet N9215

Stock no.	Product no.
S55372-C119	PXC22.1-E.D

PXC22.D



Automation station with 22 data points and BACnet on LonTalk

Fixed data point mix for 22 physical data points per automation station UIO=16, DO=6 and uses BACnet on LonTalk communication.

Data sheet N9215

Stock no.	Product no.
BPZ:PXC22.D	PXC22.D

PXC22-E.D



Automation station with 22 data points and BACnet on IP

Fixed data point mix for 22 physical data points per automation station UIO=16, DO=6 and uses BACnet on IP communication.

Data sheet N9215

Stock no.	Product no.
BPZ:PXC22-E.D	PXC22-E.D

PXC36.1.D



Automation station with 36 data points, extendable and BACnet on LonTalk

Fixed data point mix for 36 physical data points per automation station UIO=24, DI=4, DO=8. Extendable with TX-I/O and / or TX Open. Uses BACnet on LonTalk communication.

Data sheet N9215

Stock no.	Product no.
S55372-C120	PXC36.1.D

PXC36.1-E.D



Automation station with 36 data points, extendable and BACnet on IP

Fixed data point mix for 36 physical data points per automation station UIO=24, DI=4, DO=8. Extendable with TX-I/O and / or TX Open. Uses BACnet on IP communication.

Data sheet N9215

Stock no.	Product no.
S55372-C121	PXC36.1-E.D

Automation stations, modular series PXC..D

PXC50..D / PXC100..D /
PXC200..D



The freely programmable modular series PXC..D automation stations with its free I/O configuration and DIN compliant construction are optimized for panel assembly. It primarily controls and monitors larger items of plant. The flexible TX-I/O modul product range for signaling, measuring, metering, switching and positioning can be seamlessly connect to the automation station.

- Management functions (alarm management, time schedules, trend functions, remote management, access protection etc.)
- Standalone application or for use in the device or system network
- PXX-L11/12 for connecting RXC room controllers / LonWorks devices
- Connection of the PXM.. operator unit
- BTL tested BACnet communication on LonTalk, PTP or IP according to BACnet standard (rev 1.12 - as of Desigo V6.0) incl. B-BC profile
- AMEV profiles AS-A and AS-B according to guide line "BACnet 2011 - Version 1.2 (as of Desigo V6.0)"

Application

These freely programmable automation stations provide the infrastructure to accommodate and process system-specific and application-specific functions.

In addition to the control functions, the automation station also incorporates convenient integrated management functions such as:

- Alarm management with alarm routing throughout the network. Management of simple, basic and extended alarms, with safe-transfer tracking and automatic monitoring of alarm transmission
- Time schedules
- Trend functions
- Access protection throughout the network with individually definable user profiles and categories

Communication

The devices communicate via an open bus system using the international BACnet standard protocol. Both peer-to-peer communications with other automation stations and connections to the PXM20 operator units are integrated.

Data sheet	N9222
Operating voltage	AC 24 V
Frequency	50/60 Hz
Communication	Bus: BACnet / LonTalk, PTP or IP
Battery life	4 years
Memory	Flash: 32 MB SDRAM: 64 MB
Degree of protection	IP20
Dimensions (W x H x D)	192 x 74 x 96 mm

Range overview PXC50..D/PXC100..D/PXC200..D

Product Title	Stock no.	Product no.
Automation station BACnet/IP, with up to 80 data points	S55372-C110	PXC50-E.D
Automation station BACnet/LonTalk, with up to 80 data points	S55372-C109	PXC50.D
Automation station BACnet/IP, with up to 200 data points	BPZ:PXC100-E.D	PXC100-E.D
Automation station BACnet/LonTalk, with up to 200 data points	BPZ:PXC100.D	PXC100.D
Automation station BACnet/IP, with more than 200 data points	BPZ:PXC200-E.D	PXC200-E.D
Automation station BACnet/LonTalk, with more than 200 data points	BPZ:PXC200.D	PXC200.D

Extension module for I/O integration PTM..

Product Title	Data sheet	Stock no.	Product no.
Extension module for Integration of existing PTM I/O modules	N9283	S55842-Z107	PXX-PBUS

Extension modules for RXC controllers / LonWorks devices

Product Title	Data sheet	Stock no.	Product no.
Extension modules for integration of LonWorks devices and RXC room controllers	N9282	BPZ:PXX-L..	PXX-L..

Automation controls and operations

Automation stations PXC12...PXC200

System controller PXC00..

2

PXC00..D



System controllers for integration of Desigo RXC or third-party devices

The LonWorks system controller of this series allows you to connect LonWorks devices such as Desigo RXC room controllers and third-party devices. Depending on the used expansion module the system controller connect up to 60 or 120 LonWorks devices / RXC room controllers.

- BTL tested BACnet communication on LonTalk, PTP or IP according to BACnet standard (rev 1.12 - as of Desigo V6.0) incl. B-BC profile
- AMEV profiles AS-A and AS-B according to guide line 'BACnet 2011 - Version 1.2 (as of Desigo V6.0)'

Data sheet	N9222
Operating voltage	AC 24 V
Frequency	50/60 Hz
Communication	Bus: BACnet / LonTalk or IP
Battery life	4 years
Memory	Flash: 32 MB SDRAM: 64 MB
Degree of protection	IP20
Dimensions (W x H x D)	192 x 74 x 96 mm

Range overview PXC00..D

Product Title	Stock no.	Product no.
System controller BACnet/LonTalk	BPZ:PXC00.D	PXC00.D
System controller BACnet/IP	BPZ:PXC00-E.D	PXC00-E.D

Extension modules for RXC controllers / LonWorks devices

Product Title	Data sheet	Stock no.	Product no.
Extension modules for integration of LonWorks devices and RXC room controllers	N9282	BPZ:PXX-L..	PXX-L..

System-controller for the integration of KNX-devices



Integration of room controllers from the Desigo RXB and Desigo RXL product range and from KNX third-party systems into the Desigo building automation and control system (interface functionality). Further functions: Grouping of rooms and performance of higher level system functions.

- BTL tested BACnet communication on LonTalk or IP according to BACnet standard (rev 1.12 - as of Desigo V6.0) include B-BC profile
- AMEV profiles AS-A and AS-B according to guide line 'BACnet 2011 - Version 1.2 (as of Desigo V6.0)'

Functions

KNX data points are mapped to BACnet data points and vice versa. The PX KNX system controller performs the following major tasks:

- Compression of Desigo RXB/RXL room controller data and other KNX data points (e.g. room thermostats RDG/ RDF/ RDU) at the automation level
- Mapping of Desigo RXB/RXL and other KNX applications to BACnet for monitoring and operation purposes (grouped according to function:HVAC, lighting and blinds)
- Performance of higher level functions for room automation: Room and supply-related groups, system functions such as changeover, summer/winter compensation, etc.

The RXB/RXL and KNX applications are mapped to the PX KNX system controller so that a room view is created. This allows for the grouping of rooms, e.g. for shared occupancy schedules, lighting or blind commands, etc

Note: Order and delivery via your local sales office.

	Stock no.	Product no.
	BPZ:PX KNX	PX KNX

Hardware for PX KNX

Product Title	Data sheet	Stock no.	Product no.
System controller for the integration of KNX, M-Bus, Modbus or SCL over BACnet/LonTalk	N9223	S55372-C113	PXC001.D
System controller for the integration of KNX, M-Bus, Modbus or SCL over BACnet/IP	N9223	S55372-C114	PXC001-E.D

System-controller for the integration of M-Bus-devices



M-bus datapoints are mapped to BACnet datapoints and vice-versa. The PX M-bus system controller performs the following major tasks.

- BTL tested BACnet communication on LonTalk or IP according to BACnet standard (rev 1.12 - as of Desigo V6.0) include B-BC profile
- AMEV profiles AS-A and AS-B according to guide line 'BACnet 2011 - Version 1.2 (as of Desigo V6.0)'

Functions

- Acquisition of consumption data and remote monitoring of max. 250 consumption meters and heat meters
- Compression of consumption and heat meter data volume at the automation level
- Mapping of M-bus data to BACnet
- Trend objects for meter monitoring.

Note: Order and delivery via local sales office.

	Stock no.	Product no.
	BPZ:PX M-Bus	PX M-Bus

Automation controls and operations
Automation stations PXC12...PXC200
PX Open

2

Hardware for PX M-Bus

Product Title	Data sheet	Stock no.	Product no.
System controller for the integration of KNX, M-Bus, Modbus or SCL over BACnet/LonTalk	N9223	S55372-C113	PXC001.D
System controller for the integration of KNX, M-Bus, Modbus or SCL over BACnet/IP	N9223	S55372-C114	PXC001-E.D
Option module for integration up to 800 data points (SCL, M-bus, Modbus)	N9223	S55372-C115	PXA40-RS1
Option module for integration up to 1000 (SCL) or 2000 (M-bus, Modbus) data points	N9223	S55372-C116	PXA40-RS2

PX Modbus



System-controller for the integration of Modbus-devices

The PX Modbus provides a platform for the integration of various third-party systems and devices. It allows for the exchange of information with the Desigo building automation and control system at the automation level.

- BTL tested BACnet communication on LonTalk or IP according to BACnet standard (rev 1.12 - as of Desigo V6.0) include B-BC profile
- AMEV profiles AS-A and AS-B according to guide line 'BACnet 2011 - Version 1.2 (as of Desigo V6.0)'

Functions

PX Modbus supports the following Modbus function codes and data formats:

- Function codes: 01, 02, 03, 04, 05, 06, 15, 16.
- Data formats:
 - 16-bit signed and unsigned integers
 - 32-bit signed and unsigned integers
 - 32-bit signed and unsigned 'Modulus-10000'
 - Real 32-bit (IEEE floating point)
 - ACM 16-bit
 - BCD 16-bit and 32-bit

Master or slave

- The PX Modbus can be configured as either a master or slave. It supports up to 2000 third-party system data points

Note: Order and delivery via your local sales office.

Stock no.	Product no.
BPZ:PX Modbus	PX Modbus

Hardware for PX Modbus

Product Title	Data sheet	Stock no.	Product no.
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Option module for integration up to 1000 (SCL) or 2000 (M-bus, Modbus) data points	N9223	S55372-C116	PXA40-RS2

Automation station for Integral migration, integrates 64 data points in Desigo



In existing Integral plants, you can replace compact automation units NRUE/A, NRUF/A and NRUT/A with the PXC NRUF automation station.

Fixed data point mix for 64 physical data points per automation station UI=16, DI=24, DO=16, UO=8.

- BTL tested BACnet communication on LonTalk or PTP according to BACnet standard (rev 1.12 - as of Desigo V6.0) include B-BC profile
- AMEV profiles AS-A and AS-B according to guide line 'BACnet 2011 - Version 1.2 (as of Desigo V6.0)'

Data sheet	N9760
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	26 VA
Communication	Bus: BACnet / LonTalk Bus: BACnet / PTP (point to point) Room unit: PPS2
Universal inputs, number	16
Digital inputs, number	24
Digital outputs, number	16
Analog outputs, number	0
Universal outputs, number	8
Degree of protection	IP20
Dimensions (W x H x D)	265 x 295 x 100 mm

Stock no.	Product no.
BPZ:PXC-NRUF	PXC-NRUF

Adapter plug-in circuit board for Integral NK modules, integrates 48 data points in Desigo



This adapter, combined with an automation station PXC100..D, serves as a replacement for the modular automation stations NRUA/A, NRUB/A, NRUC/A and NRUD/A.

Fixed data point mix for 48 physical data points per adapter DI=8, DO=8, UI/UO=32.

The adapter consists of a plug-in circuit board with front plate. It is inserted into an existing card housing NHGB.

Data sheet	N9761
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	18 VA
Communication	Bus: TX-I/O island bus to TXB1.PBUS
Digital inputs, number	8
Universal inputs, number	16
Universal outputs, number	16
Dimensions (W x H x D)	30 x 262 x 200 mm

Stock no.	Product no.
BPZ:PXC-NRUD	PXC-NRUD

PXM20



Operator unit with BACnet on LonTalk

The network-capable PXM20 operator unit allows for homogenous operation of a multitude of building services plants at the automation level. The operator unit offers an operating keyboard and a high-resolution display for graphics and text. The PXM20 can be used on-site or remote for all plants connected via a network. The operator unit can be integrated in a panel or plugged into a modular automation station of the PXC..-U series.

Operating functions

Transparently organized function and quick-access keys allow even casual users to expertly operate the unit. The operator unit offers the following operator functions (among others):

- Easy-to-understand user instructions via the plant function
- Full access to all actual values, setpoints, plant and operating states, and parameters
- Complete data point operation and setpoint entry via clear text
- Optical and acoustic alarm indication.
- Alarm management with acknowledgement function and alarm memory
- Graphical display for scheduler program, exception day calendar, online trend heating curve
- Summary of all important values via Favorites
- Support of multi-level access protection

Data sheet	N9231
Operating voltage	AC/DC 24 V DC 12...40 V
Frequency	50/60 Hz
Power consumption	9 VA 4 W
Display size	Display area: 123 x 68 mm No. of dots: 240 x 128 dots
Keyboard	Keypad with plastic membrane and pressure point
Interface type	LON-bus RS 232-interface
Mounting	DIN rail On automation station In panel
Mounting	In panel On automation station PXC..-U On DIN rail
Ambient temperature, operation	0...50 °C
Degree of protection	IP40
Dimensions (W x H x D)	210 x 117 x 37 mm

Stock no. Product no.

BPZ:PXM20 PXM20

Operator unit, local

PXM10



The PXM10 operator unit allows for operating and monitoring a Desigo PX automation station. The unit offers user-friendly single-button operation via a turn/press button and a high-quality display. The operator unit can be integrated in a panel or a modular automation station of the PXC...-U series.

Operating functions

- Display for setpoints and actual values, plant and operating states
- Setpoint adjustment
- Optical fault indication
- Alarm display with acknowledgement function
- Graphical display of scheduler programs

Data sheet	N9230
Operating voltage	AC 24 V DC 12...40 V
Frequency	50/60 Hz
Power consumption	0.7 W 1 VA
Display size	Display area: 82 x 42 mm No. of dots: 128 x 64 dots
Interface type	RS 232-interface
Cable length	3 m
Ambient temperature, operation	0...50 °C
Degree of protection	IP40
Weight (incl. packaging)	0.35 kg
Dimensions (W x H x D)	210 x 117 x 37 mm

Stock no. Product no.

BPZ:PXM10

PXM10

Automation controls and operations

Automation stations PXC12...PXC200

2

Accessories for PXC..

Product Title	Data sheet	Stock no.	Product no.
Bus terminator 52.3 Ohm for LonWorks bus	N3861	BPZ:RXZ01.1	RXZ01.1
Bus terminator 105 Ohm for LonWorks bus	N3861	BPZ:RXZ02.1	RXZ02.1
RXZ10.1 cable kit		BPZ:RXZ10.1	RXZ10.1
Adapter RJ45 - RS232 at computer	N9234	BPZ:PXA-C2	PXA-C2
Adapter USB - RS232		BPZ:PXA-C3	PXA-C3

8 Digital Input Module

TXM1.8D

8 digital input, signaling per input with three-colored LED (green, yellow, red).

8 DI, individually configurable as:

- Message signal
- Message impulse with storage functions
- Counter impulse for up to a maximum of 10 Hertz



Data sheet	N8172
Operating voltage	DC 22.5...26 V
Power consumption	1.1 W
Digital inputs, number	8
Weight (net)	0.164 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.8D	TXM1.8D

16 Digital Input Module

TXM1.16D

16 digital input, signaling per input with green LED.

16 DI, individually configurable as:

- Message signal
- Message impulse with storage functions
- 8 inputs as counter impulse for up to a maximum of 10 Hertz



Data sheet	N8172
Operating voltage	DC 22.5...26 V
Power consumption	1.4 W
Digital inputs, number	16
Weight (net)	0.199 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.16D	TXM1.16D

8 Resistance measuring input module

TXM1.8P

8 inputs with LED signal / fault display.

8 resistance measuring inputs with individual configuration of resistance or temperature measurement:

- Pt100 (4-wire)
- Pt1000, Ni1000
- Resistance 250 ohm or 2500 ohm (2-wire)



Data sheet	N8176
Operating voltage	DC 22.5...26 V
Power consumption	1.2 W
Weight (net)	0.219 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.8P	TXM1.8P

TXM1.6R



6 Relay output module

6 outputs signaled with green LED.

6 DO (relay switch), individually configurable as:

- Continuous or impulse contact
- Single-stage or multi-stage
- Three-point positioning output with internal stroke model
- Switching voltage AC 12...250 V / DC 12...30 V
- Switching current max. 4 A

Hardware bolting device is by means of external wiring the two-way contacts.

Data sheet	N8175
Operating voltage	DC 22.5...26 V
Power consumption	1.7 W
Relay outputs, number	6
Weight (net)	0.231 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.6R	TXM1.6R

TXM1.6R-M



6 Relay output module with Override

6 outputs, signaling per output with three-colored LED (green, yellow, red), with local operation as per ISO 16484.

6 DO (relay switch), individually configurable as:

- Continuous or impulse contact
- Single-stage or multi-stage
- Three-point positioning output with internal stroke model
- Switching voltage AC 12...250 V / DC 12...30 V
- Switching current max. 4 A

Hardware bolting device is by means of external wiring the two-way contacts.

Easy-to-understand operation:

- Local priority operation as per VDI3814
- Simple display concept with LCD and colored LEDs

Data sheet	N8175
Operating voltage	DC 22.5...26 V
Power consumption	1.9 W
Relay outputs, number	6
Weight (net)	0.241 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.6R-M	TXM1.6R-M

6 Relay output module, bistable

TXM1.6RL



6 outputs signaled with green LED.

6 DO (volt-free, bistable), individually configurable as:

- Switching of fluorescent lamps (number of ballasts see data sheet)
- Configurable behavior in case of power failure and bus failure
- Max. inrush current 800 A (20 μ s), 165 A (20 ms)
- Switching voltage AC 24...277 V
- Switching current max. 10 A (cos ϕ = 0.8)

For use with the following automation stations:

- PXC22.1...D
- PXC36.1...D
- PXC50...D
- PXC100...D
- PXC200...D
- PXC3..

Data sheet	N8177
Operating voltage	DC 22.5...26 V
Power consumption	0.8 W
Relay output, switching voltage	AC 24...277 V
Weight (net)	0.27 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
S55661-J103	TXM1.6RL

8 Triac output module

TXM1.8T



8 Triac outputs, signaled with green LED.

8 AO, configurable for:

- Permanent contact
- Three-point positioning output with internal stroke model
- Pulsewidth-modulated output (PWM)
- Switching voltage AC 24 V
- Switching current AO 3-position: 250 mA / 6 VA per output
- Switching current AO PWM, BO: 125 mA / 3 VA per output

Data sheet	N8179
Operating voltage	DC 22.5...26 V
Power consumption	1 W
Weight (net)	0.198 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
S55661-J106	TXM1.8T

Automation controls and operations
I/O Extension modules TXM..
I/O modules TXM..

2

TXM1.8U



8 Universal I/O Module

8 inputs/outputs signaled with green LED.

8 universal I/O points, individually configurable as:

- DI: Message signal, message impulse or counter impulse (25 Hertz)
- AI: Temperature sensor or DC 0...10 V
- AO: DC 0...10 V

Data sheet	N8173
Operating voltage	DC 22.5...26 V
Power consumption	1.5 W
Weight (net)	0.179 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.8U	TXM1.8U

TXM1.8U-ML



8 Universal I/O Module, Override and LCD

8 inputs/outputs signaled with green LED, with local operation as per ISO 16484 with LCD signal display.

8 universal I/O points, individually configurable as:

- DI: Message signal, message impulse or counter impulse (25 Hertz)
- AI: Temperature sensor or DC 0...10 V
- AO: DC 0...10 V

Easy-to-understand operation:

- Local priority operation as per VDI3814
- Simple display concept with LCD and colored LEDs

Data sheet	N8173
Operating voltage	DC 22.5...26 V
Power consumption	1.8 W
Weight (net)	0.202 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.8U-ML	TXM1.8U-ML

TXM1.8X



8 Universal I/O Module, 4-20mA,

8 Inputs/outputs signaled with green LED.

8 universal I/O points, individually configurable as:

- DI: Message signal, message impulse (with storage function) or counter impulse (25 Hz)
- AI: Temperature sensor, DC 0...10 V, or 4...20 mA
- AO: DC 0...10 V, 4...20 mA (for 4 I/O points)

Data sheet	N8174
Operating voltage	DC 22.5...26 V
Power consumption	2.2 W
Weight (net)	0.194 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.8X	TXM1.8X

8 Universal I/O Module, 4-20mA, Override and LCD

TXM1.8X-ML

8 Inputs/outputs signaled with green LED, with local operation as per ISO 16484 with LCD signal display.

8 universal I/O points, individually configurable as:

- DI: Message signal, message impulse (with storage function) or counter impulse (25 Hertz)
- AI: Temperature sensor, DC 0...10 V, or 4...20 mA
- AO: DC 0...10 V, 4...20 mA (for 4 I/O points)

Easy-to-understand operation:

- Local priority operation as per VDI3814
- Simple display concept with LCD and colored LEDs

Data sheet	N8174
Operating voltage	DC 22.5...26 V
Power consumption	2.3 W
Weight (net)	0.211 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm



Stock no.	Product no.
BPZ:TXM1.8X-ML	TXM1.8X-ML

4 Digital Input and 3 Relay Output Module

TXM1.4D3R

4 digital input, signaling per input with three-colored LED (green, yellow, red), without local operation.

4 DI, individually configurable as:

- Message signal
- Message impulse with storage functions
- Counter impulse for up to a maximum of 10 Hertz

3 outputs signaled with green LED, without local operation.

3 DO (relay switch), individually configurable as:

- Continuous or impulse contact
- Single-stage (Note: no multi-stage steps / pulse as supported by TXM1.6R)
- Three-point positioning output with internal stroke model
- Switching voltage AC 12...250 V / DC 12...30 V
- Switching current max. 4 A

Hardware bolting is by means of external wiring the two-way contacts.

For use with the PXC4.E16 and PXC4.M16 automation stations

- Colored LEDs

Data sheet	N8188
Operating voltage	DC 21.5...26 V DC 24 V
Digital inputs, number	4
Relay outputs, number	3
Degree of protection	IP20
Weight (net)	0.202 kg
Dimensions (W x H x D)	64 x 78 x 98 mm



Stock no.	Product no.
S55661-J124	TXM1.4D3R

Automation controls and operations
I/O Extension modules TXM..
Power supply for TXM..

2

TXS1.12F10



TX-I/O Power Supply Modules 24 VDC Supply 1200 mA, 10 A Fuse

Up to 4 power supply modules can be operated in parallel
AC 24 Volt input
Generation / transfer of DC 24 V, 1.2A for the supply of TX-I/O modules and field devices
Fresh provision of AC 24 V for field device supply
Transfer of the bus signal

Data sheet	N8183
Operating voltage	AC/DC 24 V
Weight (net)	0.309 kg
Dimensions (W x H x D)	96 x 77.4 x 98 mm

Stock no.	Product no.
BPZ:TXS1.12F10	TXS1.12F10

Island bus expansion module for decentralized sub-islands with TX-I/O-modules

TXA1.IBE

- Expand island bus to a distance of up to 2 x 200 meters
- Compact design per DIN 43 880, requires little space
- With LED to monitor communication status
- Easy installation and setup:
- Mounted on standard rails
- Self-connecting bus (island bus) for the easiest possible installation
- Plug-in screw terminals for island bus expansion
- No programming / parameterization tool required



Data sheet	N8184
Operating voltage	AC 24 V
Power consumption	1.2 W
Weight (net)	0.064 kg
Dimensions (W x H x D)	32 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXA1.IBE	TXA1.IBE

BUS Connection Module, 10A Fuse

TXS1.EF10

Transfer of DC 24 V for the supply of TX-I/O modules and field devices
Fresh provision of AC / DC 12 ... 24 V for field device supply
Transfer of the bus signal



Data sheet	N8183
Operating voltage	AC/DC 24 V
Weight (net)	0.082 kg
Dimensions (W x H x D)	32 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXS1.EF10	TXS1.EF10

Automation controls and operations

I/O Extension modules TXM..

Integration modules TX Open

2

TXI2..OPEN



TX Open RS232/485 module to integrate data points out of third-party systems and devices in Desigo

Platform to integrate third-party systems and devices to the Desigo building automation and control system Desigo (Version 4 or higher).

- Suitable for operation using predefined applications from Siemens or using in-house developed applications
- Compact construction per DIN 43 880
- Easy installation and setup
 - Plug-in screw terminal
 - Power from Island bus (DC 24 V)
- Simple, fast diagnostics
- RS232/485 Interface
- Two Ethernet ports
- Suitable for operation using pre-defined applications for the following systems:
 - Modbus RTU and Modbus TCP
 - M-Bus
 - G120P
 - Grundfos and Wilo pumps
 - Danfoss

Data sheet	N8187
Operating voltage	DC 24 V
Power consumption	2.4 W
Communication	RS232 RS485
Weight (net)	0.161 kg
Dimensions (W x H x D)	96 x 77.4 x 98 mm

Range overview TXI2..OPEN

Product Title	Stock no.	Product no.
TX Open RS232/485 module to integrate up to 160 data points out of third-party systems and devices in Desigo	S55661-J120	TXI2.OPEN
TX Open RS232/485 module to integrate up to 40 data points out of third-party systems and devices in Desigo	S55661-J123	TXI2-S.OPEN

Set of address keys for TXM..

Product Title	Data sheet	Stock no.	Product no.
Address Keys 1-12 + reset key	N8170	BPZ:TXA1.K12	TXA1.K12
Address Keys 1-24 + 2 reset keys	N8170	BPZ:TXA1.K24	TXA1.K24
Address keys 25-48 + 2 reset keys	N8170	BPZ:TXA1.K-48	TXA1.K-48
Address keys 49-72 + 2 reset keys	N8170	BPZ:TXA1.K-72	TXA1.K-72
Address keys 73-96 + 2 reset keys	N8170	S55661-J101	TXA1.K-96
Address keys 97-120 + 2 reset keys	N8170	S55661-J102	TXA1.K-120
Address key 5, 10 ... 120 + 2 reset keys	N8170	BPZ:TXA1.5K120	TXA1.5K120

Labels / Label holders

Product Title	Data sheet	Stock no.	Product no.
Labels (sheet A4 with 9 labels)	N8170	BPZ:TXA1.LA4	TXA1.LA4
Spare transparent label holders (10 pcs.)	N8170	TXA1.LH	TXA1.LH
Spare transparent label holders (10 pcs.)	N8170	S55661-J107	TXA1.LH2

CXG3..

Cloud integration

Connect X200 and X300 are the edge connectivity devices to gather building data on premise and provision it to the Siemens Digital Services, securely. Following Digital Services are supported:

- Building Operator
- Cerberus Cloud Apps
- Sinteso Cloud Apps

Important Notes:

Detailed Information on Siemens Digital Services and Edge Applications can be found in the documentation of the respective Product and Service Data Sheet.

Power supply enclosures and related accessories (DIN rail, wires and materials for the connected site) are not included.

Data sheet	A6V11473182
Operating voltage	DC 24 V ± 20 %
Power consumption	13 W typically
Mounting	DIN rail
Degree of protection	IP40
Dimensions (W x H x D)	191 x 100 x 60 mm

CXG3.X200



Connect X200

Connect X200 is the edge connectivity device to gather building data on premise and provision it to the Siemens Digital Services, securely. Following Digital Services are supported:

- Building Operator
- Cerberus Cloud Apps
- Sinteso Cloud Apps

Note: Detailed Information on Siemens Digital Services can be found in the documentation of the respective Product and Service Data Sheet.

The robust industrial design of Connect X200 ensures that the system remains constantly connected.

- LED indication of activities and state
- 2-port Ethernet switch for LAN (incl. Daisy Chaining)
- 1-port Ethernet for WAN
- 2 EIA-485 interfaces
- USB interface for 4G dongles
- Operating voltage AC 24 V or DC 24 V
- Plug-in screw terminal blocks
- Mounting on standard rails or on the wall

Note: Power supply enclosures and related accessories (DIN rail, wires and materials for the connected site) are not included.

Data sheet	A6V11974867
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	Stock no.	Product no.
	S55842-Z131-A100	CXG3.X200

Connect X300

CXG3.X300



Connect X300 is the edge connectivity device to gather building data on premise and provision it to the Siemens Digital Services, securely. Following Digital Services are supported:

- Building Operator
- Cerberus Cloud Apps
- Sinteso Cloud Apps

Note: Detailed Information on Siemens Digital Services can be found in the documentation of the respective Product and Service Data Sheet.

The robust industrial design of Connect X300 ensures that the system remains constantly connected.

- 2 Ethernet ports for WAN and LAN
- Remote firmware and configuration data update over the IP interface
- LED indication of activities and state
- Operating voltage DC 24 V =
- Plug-in screw terminal block for supply
- Mounting on standard rails or wall

Note: Power supply enclosures and related accessories (DIN rail, wires and materials for the connected site) are not included.

Data sheet A6V11473182

	Stock no.	Product no.
	S55842-Z121-A100	CXG3.X300

BACnet router

PXG3..



The PXG3.. BACnet router connects a BACnet Ethernet/IP network (BACnet/IPv4 and BACnet/IPv6) to a BACnet /LonTalk network (PXG3.L only), and/or a BACnet/MS/TP channel. BACnet objects are simultaneously transmitted among any and all networks.

- Routing between BACnet MS/TP, BACnet/LonTalk (PXG3.L only), and BACnet/IP
- Routing between BACnet/IPv4 and BACnet/IPv6
- Configuration with Desigo Xwork Plus
- LED indication
- 2-port Ethernet switch for low-cost cabling (10/100 baseT)
- BACnet MS/TP (RS-485) baud rates: 9600, 19200, 38400, 76800
- BTL tested BACnet communication according to BACnet standard (rev 1.12 - as of Desigo V6.0)
- For use with the automation stations PXC12.., PXC200 and PXC00, which are commissioned with the Desigo Xworks Tool

Data sheet N9270
 Operating voltage AC 24 V
 DC 24 V
 Frequency 50/60 Hz
 Degree of protection IP20

Range overview PXG3..

Product Title	Communi- cation	Dimensions (WxHxD) [mm]	Stock no.	Product no.
BACnet router, BACnet Ethernet/IP to BACnet/LonTalk or BACnet/MS/TP	BACnet / IP (BACnet/IPv4 and BACnet/IPv6) BACnet / LonTalk BACnet / MS / TP	162 x 74 x 90	S55842-Z105-A100	PXG3.L
BACnet router, BACnet Ethernet/IP to BACnet/MS/TP	BACnet / IP (BACnet/IPv4 and BACnet/IPv6) BACnet / MS / TP	162 x 74 x 90	S55842-Z106-A101	PXG3.M

Room automation



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Desigo Room automation

Experience the ultimate comfort for any room

3

Room automation is essential for protecting and enhancing the occupants' health as well as increasing productivity at the same time. Instead of separate systems for HVAC, lighting and shade control, each with its own network infrastructure, Siemens provides a system for all three functions in one cost effective solution.

Ensure a comfortable room climate, good air quality and optimal lighting conditions with as little energy as possible. Since Desigo Room Automation supports international communication standards, it can be integrated seamlessly into existing applications.

With Desigo Room Automation achieve:

- Lower investment and installation costs
- Reduced long-term operating costs
- Improved room energy efficiency
- Greater occupant experience and comfort



Room automation stations

Compact room automation stations for HVAC, lighting and shading



Actuating Room devices

Compact room automation stations in combination with actuator for HVAC (VAV & FPB), lighting and shading



Room units

Elegant room units with integrated temperature sensors



Sensors and presence detectors

One sensor. Highest energy efficiency for perfect places.



Actuators

To control lighting, shading, HVAC in the most efficient way

Learn more



Desigo room automation products allow you to create a system with the following open standard communication protocols:

Product range	Desigo Total Room Automation (BACnet)		Desigo Room Automation (KNX)
			
Communication (Backbone)	BACnet/IP	BACnet MS/TP	KNX
Communication with sensors/actuators in room (integrations)	KNX DALI-2		KNX
System integration / *System functions	PXC...E.D	PXG3.L PXC...E.D	PXC001-E.D
Modular controller I/Os	PXC3.E.. TXM		
Compact controller	DXR2.E..	DXR2.M..	RXB..
Thermostats			RDG.. RDF.. RDU..
Communication with room units	KNX PL-Link	KNX PL-Link	PPS2
Room units	QMX3..	QMX3..	QAX..
Presence sensors	UP 258D		
Shading actuators	RL 521/23, N 543D		
Lighting actuators	RL 526D, N 536D, N 525D11		
Switching actuators	RL 512/23, N 534D, N532D, N 530D		
Wall switches	UP 22.., UP 20.., UP 28..		

* Time schedules

Desigo Total Room Automation (BACnet)						
High-end market	Programmable room automation KNX PL-Link DALI					<ul style="list-style-type: none"> Covers all types of building structures with decentralized/ centralized or mixed installation topologies and methods Standardized and tested application library, allows customer-specific adaptations
Small to medium-size buildings with moderate complexity	Configurable room automation KNX PL-Link expansion					<ul style="list-style-type: none"> Compact room automation station for HVAC application Expansion with lighting and shading application by adding KNX PL-Link devices Easy and efficient engineering with flexible configuration
Application	Fan coil	VAV / fan-powered box	Radiator / chilled ceiling	Lighting	Shading	

3



Configurable room automation station with BACnet

The room automation stations DXR2.. are perfectly suited for automatic heating, ventilation and air conditioning in a room.

In addition, the DXR2.. can be extended with lighting and shading functionality by adding KNX PL- Link modules.

The room automation stations offer onboard I/O data points, allowing direct connection of field devices as well as an integrated interface to KNX, including power supply.

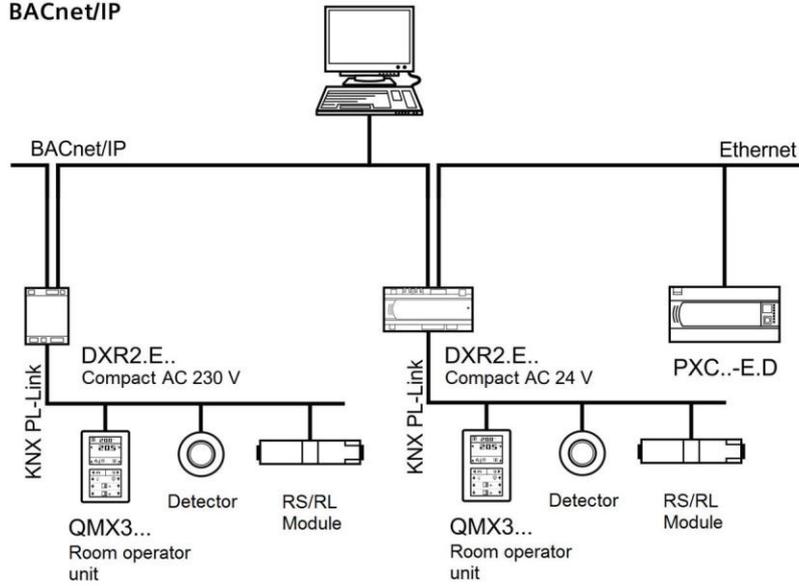
This combination allows you to create a data point mix that optimally matches application requirements.

DXR2.. comes with set of of preloaded applications that can be flexibly configured with the software tool ABT Site.

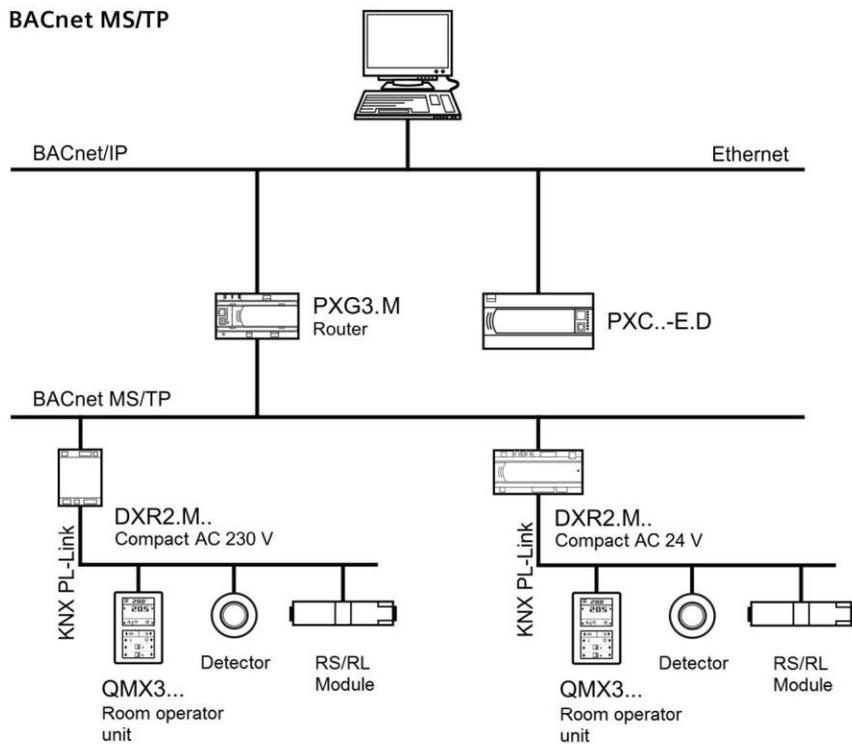
If required, DXR2.. can also be loaded with fully customized applications created in software suite ABT PRO.

Topology for configurable room automation stations

BACnet/IP



BACnet MS/TP



Application configuration

Applications can be configured by combining functions from one or several application types:

- Room sensor and operating
- Radiant (heated/chilled) ceiling and radiator
- Fan coil
- VAV system or fan-powered box
- Lighting
- Shading

Configuration is limited by total number of data points.
 Application group central functions requires dedicated room automation station.



Configurable controllers												
Communication												
BACnet/IP	DXR2. E09-101A	DXR2. E09T-101A	DXR2. E10-101A		DXR2. E12P-102A	DXR2. E12PX-102A	DXR2. E18-101A	DXR2. E18-102A	DXR2. E10PL-102B	DXR2. E10PLX-102B	DXR2. E17C-103A	DXR2. E17CX-103A
BACnet MS/TP	DXR2. M09-101A	DXR2. M09T-101A	DXR2. M10-101A	DXR2. M11-101A	DXR2. M12P-102A		DXR2. M18-101A	DXR2. M18-102A	DXR2. M10PL-102B	DXR2. M10PLX-102B		

Application types												
Room operating	•	•	•	•	•	•	•	•	•	•	•	•
Heated / chilled ceiling and radiator	•	•	•	•	•	•	•	•	•	•	•	•
Fan coil	•	•	•	•			•					
VAV system or fan-powered box					•	•		•	•	•	•	•
Pressurized and fume hood											•	•
Lighting	•	•	•	•	•	•	•	•	•	•	•	•
Shading	•	•	•	•	•	•	•	•	•	•	•	•
Central functions							•*	•*				

Housing												
DIN				•	•		•	•			•	•
Flat	•	•	•						•**	•**		

Operating voltage												
230 V	•	•	•									
24 V				•	•		•	•	•	•	•	•

Inputs and outputs onboard												
Resistor inputs		0	0	0	0	0	0	0	0	0	3	2
Digital inputs	1	1	1	1	1	1	2	2	1	1	4***	3
Universal inputs	2	2	2	2	2	2	4	4	2	2	4	4***
Relay outputs	3	1	3									
Triac outputs		4	4	6	6	6	8	8	4	4	4	4
Analog outputs (DC 0...10 V)	3	1		2	2	2	4	4	1	1	4	4
Pressure sensor					1	1			1	1		
SCOM communication for sensors											•	•

Maximum configuration												
Total data points	30	30	30	30	30	60	60	60	30	60	30	60
Integrated power supply for KNX (mA)	50	50	50	50	50	50	50	50	50	50		

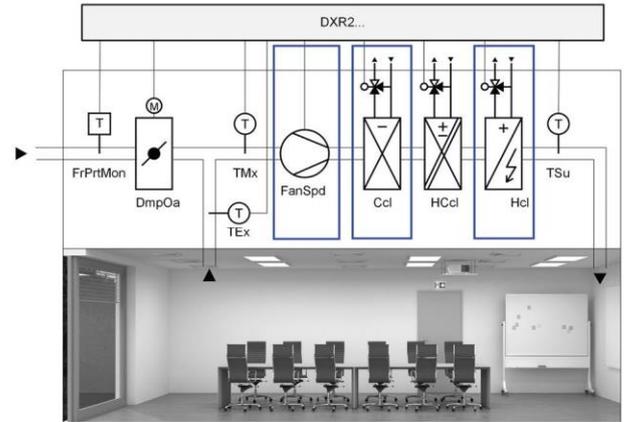
* Cannot be combined with other applications ** Via damper *** including 4...20 mA

Example of product selection

1. Check application requirements

Requirements

- Fan coil
- 4-pipe system
- 3-speed fan
- 2 valves with electrothermal actuators (2-point control signal)
- Voltage AC 230 V
- Presence detector
- Room unit with built-in temperature sensor



3

	Frost protection (FrPrtMon)	Outside air damper (DmpOa)	Extract air temperature (TEx)	Mixed air temperature (TMx)	Fan speed (FanSpd)	Cooling coil (Ccl)	Heating/cooling coil (HCcl)	Heating coil (Hcl)	Supply air temperature (TSu)
DI									
AI									
Relais					3				
Triac						1		1	
0..10 V									
Relais + 0..10 V									

2. Find matching products in overview tables

Products matching application requirements above:

Product Number	Description	Qty
DXR2.E10	Compact room automation stations, BACnet/IP, 230 V	1
QMX3.P34	Room operator unit KNX with temperature sensor, segmented backlit display, touchkeys	1
UP 258D12	Passive infrared presence detector	1
STP73	Electrothermal actuator, AC/DC 24 V, NO, 2P, 1 m	2
VMP47.10-1.6	3-port seat valve with bypass, external thread, PN16, DN10, kvs 1.6	2

Note:
Product overview tables provide quick overview and show main features; nevertheless, we recommend checking technical parameters of each product.

3. Check total data points and bus load

Used DXR2.. onboard data points: 5
 KNX PL-Link data points: 5
 Total used data points: 10 < 30
 Total KNX PL-Link bus load: 17.5 mA < 50 mA

Correct, total values do not exceed maximum configuration.

Room automation

Overview and selection tools

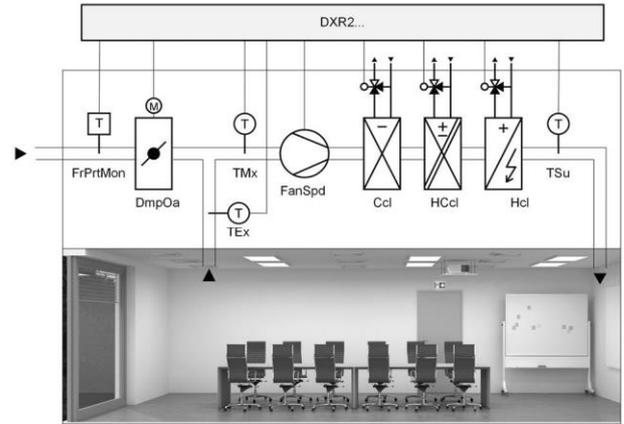
HVAC applications

Application types

Fan coil

Application can be configured from these functions:

- Outside air damper
- Single-speed fan, multi-speed fan or variable-speed fan
- Chilled water cooling coil
- Direct expansion evaporator cooling coil
- Heating/cooling coil
- Hot water heating coil
- Electric heating coil modulating, single stage or 2 stage
- Room temperature control by 2-pipe system with changeover
- Room temperature control by 4-pipe system
- Supply air temperature cascade control
- Room dehumidification control
- Air volume flow control
- Rapid ventilation
- Green Leaf



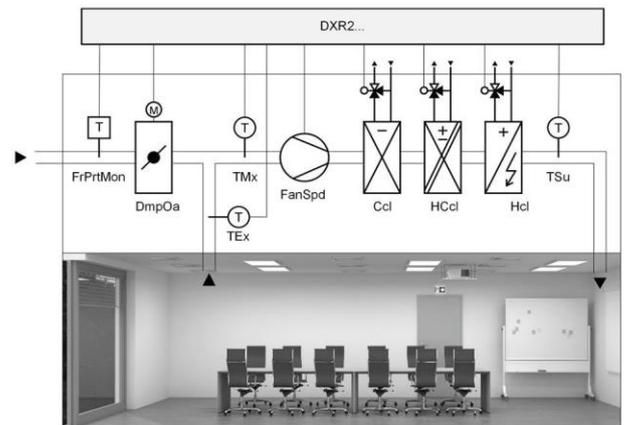
	Frost protection monitor (FrPrtMon)	Outside air damper (DmpOa)	Extract air temperature (TEx)	Mixed air temperature (TMx)	Fan speed (FanSpd)	Cooling coil (Ccl)	Heating/cooling coil (HCcl)	Heating coil (Hcl)	Supply air temperature (TSu)
DI	1								
AI			1	1					1
Relais					1-3				
Triac		2			1-2	1-2	1, 2, 4, 8	1-2	
0..10 V		1			1*	1	1, 4	1**	

* Requires additional relais or triac for enable signal
 ** Requires additional triac for electric heating enable signal

VAV (variable air volume system)

Application can be configured from these functions:

- Supply and extract air control
- External flow control for VAV with integrated flow controller and differential pressure sensor
- Internal flow controller and differential pressure sensor for damper actuator control
- Internal flow controller and velocity sensor for damper actuator control
- Chilled water cooling coil
- Heating/cooling coil
- Hot water heating coil
- Electric heating coil modulating, single stage or 2 stage
- Room temperature control by 2-pipe system with changeover
- Room temperature control by 4-pipe system
- Supply air temperature cascade control
- Air flow tracking for under/overpressure
- Room dehumidification control
- Room air quality control
- Rapid ventilation
- Green Leaf



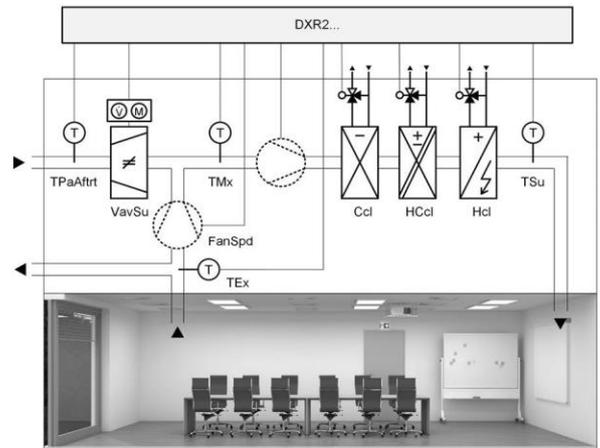
	Primary air temperature for air aftertreatment (TPaAfrt)	Supply air VAV (VavSu)	Cooling coil (Ccl)	Heating/cooling coil (HCcl)	Heating coil (Hcl)	Supply air temperature (TSu)	Extract air temperature (TEx)	Extract air VAV (VavEx)
DI								
AI	1					1	1	
Relais								
Triac		2**	1-2	1, 2, 4, 8	1-2			2**
0..10 V		1	1	1, 4	1*			1
Actuator for VAV (KNX PL-Link)		1						1

* Requires additional triac for electric heating enable signal
 ** When using DXR2.. with AC 24 V power supply in combination with GDB181.1E/3 or GLB181.1E/3, use 0..10 V signals.

Fan powered box

Application can be configured from these functions:

- Supply air control
- External flow control for VAV with integrated flow controller and differential pressure sensor
- Internal flow controller and differential pressure sensor for damper actuator control
- Internal flow controller and velocity sensor for damper actuator control
- Single-speed fan, 2-speed fan or variable-speed fan
- Chilled water cooling coil
- Heating/cooling coil
- Hot water heating coil
- Electric heating coil modulating, single stage or 2 stage
- Room temperature control by 2-pipe system with changeover
- Room temperature control by 4-pipe system
- Supply air temperature cascade control
- Room air quality control
- Rapid ventilation
- Green Leaf



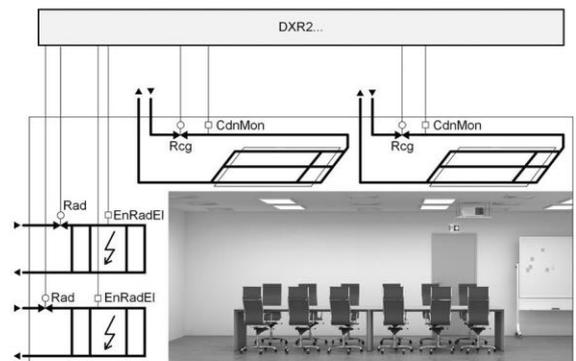
	Primary air temperature for air after-treatment (TPaAfrt)	Supply air VAV (VavSu)	Extract air temperature (TEx)	Mixed air temperature (TMx)	Fan speed (FanSpd)	Cooling coil (Ccl)	Heating/cooling coil (HCcl)	Heating coil (Hcl)	Supply air temperature (TSu)
DI									
AI	1		1	1					1
Relais									
Triac		2			1-2	1-2	1, 2, 4, 8	1-2	
0..10 V		1			1*	1	1, 4	1**	
Actuator for VAV (KNX PL-Link)		1*							

* Requires additional triac for enable signal
** Requires additional triac for electric heating enable signal

Radiant ceiling and radiator

Application can be configured from these functions:

- Chilled ceiling with chilled water
- Heated/chilled ceiling by 2-pipe system with changeover
- Heated/chilled ceiling by 4-pipe system with 6 way valves
- Heating ceiling with hot water
- Hot water radiator
- Electric radiator modulating or staged
- Downdraft compensation for radiators
- Condensation monitor
- Room temperature control
- Green Leaf



	Radiator (Rad)	Radiator overtemperature (RadOvrT)	Radiant ceiling (Rcg)	Condensation monitor (CdnMon)
DI		1		1
AI				
Relais				
Triac	1-4		1-4	
0..10 V	1-2*		1-2	

* Requires additional triac or relais for electric heating enable signal

Room automation

Overview and selection tools

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Room sensor and operating

Application can be configured from these functions:

- Room operating units QMX3 on KNX PL-Link
- Sensors for onboard IOs or KNX PL-Link
- Presence/brightness sensors for onboard IOs or KNX PL-Link
- Push buttons for light and shading on KNX PL-Link
- Window contacts for onboard IOs
- Collision detectors for onboard IOs

						
	Temperature sensor	Air quality sensor	Humidity sensor	Brightness sensor	Presence detector	Collision detector
DI					2	2
AI	1	1	1			
HVAC sensor (KNX PL-Link)	1	1	1			
Presence and brightness sensor (KNX PL-Link)				1	1-4*	
Room unit (KNX PL-Link)	1	1	1			
Combined room unit (KNX PL-Link)	1					

* Must be the same device

					
	Window contact	Room operator unit	Light control	Shading control	Combined control
DI	1				
Room unit (KNX PL-Link)		2*			
Combined room unit (KNX PL-Link)		1**	1	1	1
Push button (KNX-PL-Link)			1-2****	1-2****	1***

* Must be the same device

** Cannot be combined with additional push-button devices (KNX PL-Link)

*** Cannot be combined with additional light or blind control devices

**** Must be the same device, and every light group is switched by maximum one push button or dimmed by one pair of push buttons

Lighting and shading

Application can be configured from these functions:

Every DXR2.. controls up to 4 lighting groups with:

- Manual switching control
- Manual dimming control with dimming actuators
- Automatic presence control
- Automatic brightness control with dimming actuators
- Constant light control with dimming actuators
- Multi-group constant light control
- LED support on push buttons
- Green Leaf – RoomOptiControl
- Burn-in and operating hours function

Every DXR2.. controls up to 2 blinds with:

- Manual control
- Automatic control with anti-glare function and energy-efficiency function (requires facade control from central functions)
- Green Leaf – RoomOptiControl
- Collision detection

	 LgtDev 1...4	 BlsDev 1...2
	Lighting	Shading
Number of outputs, Actuators for lighting (KNX PL-Link)	1-4	
Number of outputs, Actuators for shading (KNX PL-Link)		1-2

Central functions

Application can be configured from these functions:

- Central operation group including room operating mode and start optimization, set points and seasonal compensation, light, shading and forced emergency commands
- Demand-controlled hot water supply system, includes temperature set point
- Demand-controlled chilled water supply system, includes temperature set point, shift to avoid condensation by collecting condensation monitors, free cooling calculation
- Demand-controlled 2-pipe heating / cooling water supply system, includes temperature set point, changeover, free cooling calculation
- Demand-controlled air handling unit (supply and extract air), includes temperature set point, maximum humidity set point, pressure set point, maintain minimal central air volume, flow deviation calculation, summed air volume set points
- Variable air volume (VAV) emergency group, includes shutdown, extract, pressurization or purge
- Central weather station information, includes outside temperature, outside brightness, outside solar radiation, outside wind speed, outside precipitation
- Central facade functions for shading, includes brightness calculation, central operation group for facade, glare protection
- Shading central protection groups for wind protection, precipitation protection, frost protection, staged distribution for central blind commands in large buildings

	Central weather station controller					Central facade controller		
								
	Outside temperature	Relative outside humidity	Atmospheric pressure	Wind speed	Precipitation detector	Brightness with 1 sensor	Brightness with 3 sensor (E,S,W) (E,N,W)	Solar radiation
DI					1			
AI	1	1	1	1		1	1-3	1
Push button (KNX PL-Link)								
DXR2.. Type	DXR2..18..					DXR2..18..		

	Central HVAC supply controller			Central emergency controller				
								
	Operating mode groups	Light manual central operation	Shading manual central operation	Forced emergency position for shading	Forced emergency command for lighting	Forced emergency shutdown air supply	Forced smoke extraction (exhaust air)	Forced smoke pressurization (supply air)
DI	1-4			1	1	1-2	1-2	1-2
AI								
Push button (KNX PL-Link)		4*	4*					
DXR2.. Type	DXR2..18..			DXR2..18..				

* Either 1 device UP220D31 for 2 outputs or 2 devices UP 221 / UP 285 for 1 output each

Room automation

Overview and selection tools

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Preloaded applications

Pressurized rooms and fume hoods

Designo room pressurization and fume hood control is a range of dedicated, reliable air volume flow controllers and supplementary components for secure, precise and fast measurement, control and monitoring of air volume flows and room pressures in highly specialized working spaces. It is part of the Designo building automation and control system.

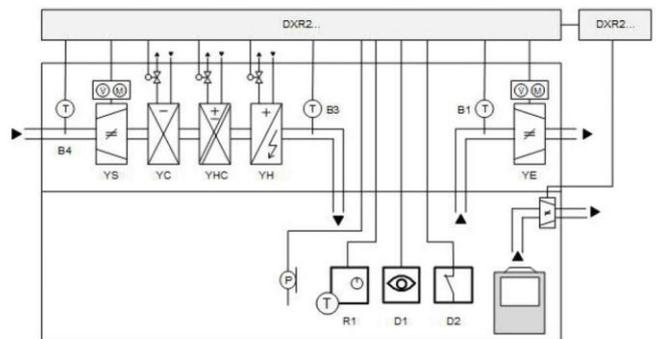
As a result, the overall system maximizes security, efficiency and cost-effectiveness.

Locations:

- Highly specialized research and manufacturing spaces requiring dedicated high-speed control solutions for room pressurization & fume hood control
- Rooms in:
 - Research facilities
 - Pharma/Biotech
 - Healthcare
 - Hi-tech manufacturing
 - Vivariums
 - Higher education customers, etc.

Applications:

- Room ventilation and general extraction, measuring, controlling and monitoring of air volume flows
- Room balancing and room pressurization control
- Laboratory fume hood air volume flow control and monitoring
- Room air conditioning together with lighting & shading control
- Room and fume hood emergency functions
- Demand-controlled ventilation support for energy-saving opportunities
- Pressurized rooms and fume hoods
 - Application works self-contained or distributed across multiple automation stations.
 - **1 room segment control (30 data points)**
operates one supply and one extract terminal or one fume hood, as well as coordinates operation among multiple room segments.
 - **2 room segment control in single automation station (60 data points)**
operates two supply and two extract terminals or one fume hood, as well as coordinates operation among multiple room segments.
- Variable (VAV) and constant volume flow
 - with 2-stage electric heating
 - with hot water
 - with hot water and flow temperature control
 - with hot water and thermal power control
- Separate temperature and volume set points for all 4 operating modes.
- Supply and extract air flow tracking
- Room pressure cascade control
- Accepts external demand control ventilation signal
- Chilled water and hot water valve
- Chilled beam active or passive cooling (2-pipe) or cooling/heating (2-pipe) or cooling/heating (4-pipe)
- Radiant ceiling: cooling, cooling and heating (2-pipe) or cooling/heating (4-pipe)
- Radiator: hot water, steam (2- or 4-pipe) or electric stepped controlled
- Light: up to 4 separate zones
- Blinds: 1 or 2 motors



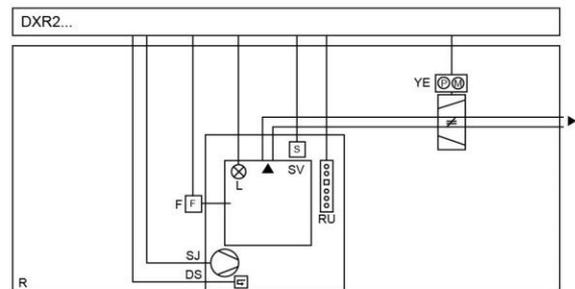
Pressurized rooms and fume hoods

	Primary air temperature for air after-treatment (TPaAftrt)	Supply air VAV differential pressure (VavSuDiffP)	Cooling coil (Ccl)	Heating/cooling coil (HCcl)	Heating coil (Hcl)	Supply air temperature (TSu)	Extract air temperature (TEx)	Extract air VAV differential pressure (VavExDiffP)
BI (Ohm)	1					1	1	
DI								
AI (0...10 V)	1					1	1	
AI (0...20 mA)		1						1
Triac			1	1	1			
AO (0...10 V)		1	1	1	1			1
SCOM		1	1	1	1			1

- Fume hood with variable air volume flow control, stabilizing jet, vertical and horizontal sash with lighting
- Fume hood exhaust air volume control and control for fast, precise VAV actuator on 0 ... 10 V output.
- Consisting of functions for face velocity setpoint, exhaust air volume flow setpoint, sash positioning, lab operator display panel and integrated lighting control
- Control and monitoring of the stabilizing jet fan
- Configure the exact functionality based on connected devices and application block.
- Configurable, generic universal control functions for free I/Os

Preloaded applications

- Fume hood exhaust damper control
- Sensors (face velocity, duct exhaust flow, sash position)
- Operator display panel
- Push buttons, switches for fume hood lighting
- 1 light



Room automation

Overview and selection tools

3

Pressurized rooms and fume hoods

							
	Temperature sensor	Air quality sensor	Humidity sensor	Brightness sensor	Presence detector	Collision detector	Pressure sensor
DI					2	2	
AI	1	1	1				
HVAC sensor (KNX PL-Link)	1	1	1				2
Presence and brightness sensor (KNX PL-Link)				1	1-4*		
Room unit (KNX-PL-Link)	1	1	1				
Combined room unit (KNX PL-Link)	1						
SCOM							2**

* Must be the same device
 ** Per segment

	QMX3.P88-1WSC	QMX3.P87-1WSC
Features		
Alarm indication	•	•
Warning indication	•	•
Safe indication	•	•
Buzzer off	•	•
Set points adjustment	•	•
Information button	•	
Manual mode	•	
Green Leaf	•	•
Fume hood light	•	•
Display	•	•
Emergency max		•
Optional battery backup	•	

Pressurized rooms and fume hoods

ASN	Description	Product picture
DXR2.E17C-103A	BACnet/IP, 24 VAC, 17 I/O room pressurization and fume hood automation station, 30 data points	
DXR2.E17CX-103A	BACnet/IP, 24 VAC, 17 I/O room pressurization and fume hood automation station, 60 data points	
QMX3.P87-1WSC	Operating display panel – wall-mounted (KNX)	
QMX3.P88-1WSC	Operating display panel – thin- & flush-mounted (KNX)	
DXA.S04P1	Air flow pressure sensor (SCOM)	
DXA.S04P1-B	Air flow pressure sensor with IP54 box (SCOM)	
DXA.B130	Sash sensors 130 mm / 50"	
DXA.B200	Sash sensors 200 mm / 80"	
QVE3001	Flow sensor	
GAP191.1E	Damper actuator	
RPM.00-SD	Room condition monitor	
RPM.12-SD	Room Condition Monitor with Pressure Sensor (+-12 Pa / +-0.05"WC)	
RPM.25-SD	Room Condition Monitor with Pressure Sensor (+-25 Pa / +-0.1"WC)	
RPM.62-SD	Room Condition Monitor with Pressure Sensor (+-62 Pa / +-0.25"WC)	
RPM.125-SD	Room Condition Monitor with Pressure Sensor (+-125 Pa / +-0.5"WC)	
RPM.250-SD	Room Condition Monitor with Pressure Sensor (+-250 Pa / +-1.0"WC)	
QBM3020-1U	Air duct differential pressure sensor, -50...50 Pa	

Room automation

Overview and selection tools

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Room units

	QMX2..		QMX3..		
	P33	P43	P36	P34	P74
Features					
Mode selection	•	•	•	•	•
Fan switch	•	•	•	•	•
Set point adjuster	•	•	•	•	•
Temperature sensor	•	•	•	•	•
Humidity sensor		•			•
Air quality sensor					•
Mounting					
Flush-mounted			•		
Directly on wall	•	•		•	•
Integration into DXR2...					
Data points	3	3	3	3	5
KNX PL-Link bus load (mA)	7.5	7.5	12.5	7.5	15

HVAC Sensor (KNX PL-Link)

	AQR2570... and AQR2532NNW	AQR2570... and AQR2533NNW	AQR2570... and AQR2535NNW	AQR2570... and AQR253NNWQ	AQR2576... and AQR2530NNW	AQR2576... and AQR2532NNW	AQR2576... and AQR2533NNW	AQR2576... and AQR2535NNW	AQR2576... and AQR253NNWQ	QMX3.P30	QMX3.P40	QMX3.P70	
Features													
LED indication air quality				•					•			•	
Temperature sensor	•		•	•		•		•	•	•	•	•	
Humidity sensor		•	•	•			•	•	•		•	•	
Air quality sensor					•	•	•	•	•			•	
Mounting													
Flush-mounted	•	•	•	•	•	•	•	•	•				
Directly on wall										•	•	•	
Integration into DXR2...													
Data points	1	1	2	3	1	2	2	3	3	1	2	3	
KNX PL-Link bus load (mA)	5	5	5	5	15	15	15	15	15	7.5	7.5	15	

Presence and brightness sensor (KNX PL-Link)

					
	UP 258D12	UP 258D31	UP 258D41	UP 258D51	UP 258D61

Features

Presence detector	•	•	•	•	•
Detection area at mounting height 2.5 m (m)	4.5	8 x 8	8 x 8	8 x 8	8 x 8
Brightness sensor	•	•	•	•	•
Temperature	•	•	•	•	•
Humidity			•	•	
CO2				•	

Integration into DXR2..

Data points	2	3	3	4	2
KNX PL-Link bus load (mA)	10	15	15	30	20

Actuator for VAV (KNX PL-Link)

		
VAV compact controller	GDB181.1E/KN	GLB181.1E/KN

Features

Torque (Nm)	5	10
Air damper area (m ²)	0.8	1.5
Operating range (Pa)	0...300	0...300
Operating voltage (V AC)	24	24

Integration into DXR2..

Data points	2	2
KNX PL-Link bus load (mA)	5	5

Room automation

Overview and selection tools

Push buttons (KNX PL-Link)

									
	UP 220D31	UP 221..	UP 222..	UP 223..	UP 285..	UP 286..	UP 287..	P02	P37

Features

Display									•
Mode selection									•
Fan switch									•
Set point adjuster									•
Operation of light and shading	•	•	•	•	•	•	•	•	•
Temperature sensor								•	•
Bus transceiver modules UP117		•	•	•	•	•	•		
Bus transceiver modules in lighting actuator UP 510/03 or UP 525/03		•	•	•	•	•	•		
Bus transceiver modules in shading actuator UP 520/03		•	•	•	•	•	•		
Light control (1x toggle)	1	1	1		1	1		1	1
Light control (2x toggle)	1	1	1		1	1		1	1
Light control (3x toggle)	1		1			1		1	1
Light control (4x toggle)	1		1			1		1	1
Light control (1x dimming or switching)	1	1	1	1	1	1	1	1	1
Light control (2x dimming or switching)	1		1	1		1	1	1	1
Light control (3x dimming or switching)	2			1			1	1	1
Light control (4x dimming or switching)	2						1	1	1
Shading control (1x shading)	1	1	1		1	1		1	1
Shading control (2x shading)	1	2	1		2	1		1	1
Combined control (1x toggle and 1x shading)	1		1	1		1	1	1	1
Combined control (2x toggle and 1x shading)	1		1	1		1	1	1	1
Combined control (3x toggle and 1x shading)				1			1	1	1
Combined control (4x toggle and 1x shading)				1			1	1	1
Combined control (1x toggle and 2x shading)				1			1	1	1
Combined control (2x toggle and 2x shading)				1			1	1	1
Combined control (3x toggle and 2x shading)							1	1	1
Combined control (4x toggle and 2x shading)							1	1	1
Combined control (1x dimming or switching and 1x shading)	1		1	1		1	1	1	1
Combined control (2x dimming or switching and 1x shading)				1			1	1	1
Combined control (1x dimming or switching and 2x shading)				1			1	1	1
Combined control (2x dimming or switching and 2x shading)							1	1	1
Status LED		•	•	•	•	•	•		

Integration into DXR2...

Data points	4	2	4	6	2	4	8	9	11
KNX PL-Link bus load (mA)	10	10	10	10	10	10	10	7.5	10

3

Actuators for lighting (KNX PL-Link)

									
	UP 510/03	UP 525/03	UP 510/13	UP 525/13	RS 510/23	RS 525/23	RL 512/23	RL 526D23	N 525D11
Applications									
Switching	•	•	•	•	•	•	•	•	•
Dimming (R, L, C)		R, L, C		R, L, C		R, L, C		1...10 V	DALI
Outputs									
Number of outputs	2	1	2	1	2	1	1	2	2 x 20
Switching current (A)	10*		10*		10*		16**	6	
Rated power (VA)		10...250		10...250		10...250			
Mounting									
Flush-mounted (under push buttons)	•	•							
Flush-mounted			•	•					
Room control box (AP 118/01)					•	•	•	•	
Room control box (AP 641/01)					•	•	•	•	
DIN-rail mounted									•
Integration into DXR2..									
Data points	2	1	2	1	2	1	1	2	2
KNX PL-Link bus load (mA)	10	10	10	10	10	10	10	15	5

* For resistive loads

** For resistive loads, AX loads (200 µF) and direct current at 24 V DC

Actuators for shading (KNX PL-Link)

						
	UP 520/03	UP 520/13	RS 520/23	RL 521/23	N 543D31	N 543D51
Applications						
Blinds with slats	•	•	•	•	•	•
Shutters	•	•	•	•	•	•
Outputs						
Number of outputs	1	1	1	2	4	8
Switching current (A)	6*	6*	6*	6*	6	6
Mounting						
Flush-mounted (under push buttons)	•					
Flush-mounted		•				
Room control box (AP 118/01)			•	•		
Room control box (AP 641/01)			•	•		
Integration into DXR2..						
DIN-Rail					•	•
Data points	2	2	2	4	4	8
KNX PL-Link bus load (mA)	10	10	10	10	15	20

* For resistive loads

3



Programmable room automation station with BACnet

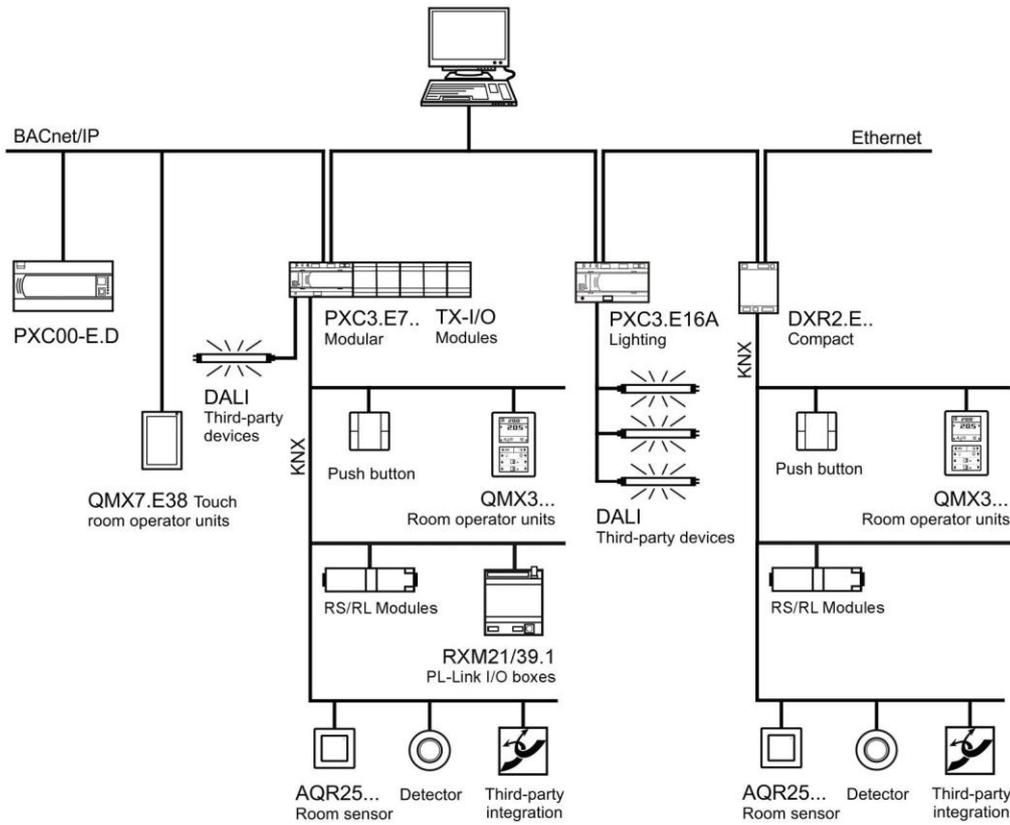


DXR2.. and PXC3.. room automation stations are programmable, based on proven application blocks. Solutions thus can be tailored to specific needs and allow you to achieve maximum efficiency and comfort.

A comprehensive block library for room automation is provided as part of the scope of delivery. The library contains predefined application functions for room climate,

lighting, shading and superimposed room functions. They can be combined to form individual solutions together with operating and display functions. The individual application functions can be adapted to customer needs and are fully programmable. The application functions do not depend on the selected field devices.

Topology for programmable room automation stations



Modular room automation station with BACnet

					
	PXC3.E72	PXC3.E72A	PXC3.E75	PXC3.E75A	PXC3.E16A
Max. numbers of rooms / room segments	4 / 8	4 / 8	8 / 16	8 / 16	n/a
System communication	BACnet / IP	BACnet / IP	BACnet / IP	BACnet / IP	BACnet / IP
System functions (BACnet)					
BACnet profiles	B-AAC	B-ASC	B-ASC	B-ASC	B-AAC
Programming	•	•	•	•	•
Peripheral bus					
Bus for I/O module	•	•	•	•	•
KNX PL-Link / KNX S-Mode	•	•	•	•	•
DALI		•		•	•
Maximum configuration					
Total data points	140	140	280	280	
Inputs/outputs for TX I/O modules	72	72	200	200	280
Devices on KNX PL-Link	64	64	64	64	n/a
Integrated power supply for KNX (mA)	160	160	160	160	
DALI ballasts		max. 64		max. 64	max. 64
DALI input devices		max. 63		max. 63	max. 63
DALI On-board bus power supply		230 mA		230 mA	230 mA

Room automation

Overview and selection tools

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Overview I/O module TXM1..

							
Product	TXM1.8D	TXM1.16D	TXM1.8U	TXM1.6R	TXM1.6RL	TXM1.8RB	TXM1.8T
Number of inputs/outputs	8	16	8	6	6	8	8
Functionality							
3-color I/O status LED	•						
Green I/O status LED		•	•	•	•	•	•
Digital inputs (DI)							
Message signal (open/closer)	•	•	•				
Message impulse	•	•	•				
Counter 10 Hz (with debouncing)	•	•*					
Counter 25 Hz (with debouncing)			•				
Counter 100 Hz (bouncer free)			•				
Analog inputs (AI)							
LG-Ni1000			•				
Pt1000/0...2500 Ohm			•				
T1			•				
DC 0...10 V			•				
Analog outputs (AO)							
DC 0...10 V			•				
Digital outputs (DO)							
Continuous contact on/off				•			•
Continuous contact 3-stage				•			
3-point output (stroke model)				•			•
Impulse on/off				•			
Impulse				•			
Impulse 3-stage				•			
Bistable contact					•		
Contact for control of blinds						•	
Modulating (PWM)							•

All I/O points of a module are configurable on any implemented functionality. The module TXI1.OPEN enables the integration of Modbus, M-bus, etc. on the PXC50/100/200..D.

* On the TXM1.16D the counters are implemented only on the inputs 1 to 8

Compact room automation station with BACnet



Communication

BACnet/IP	DXR2. E09-101A	DXR2. E09T- 101A	DXR2. E10-101A		DXR2. E12P- 102A	DXR2. E18-1..A	DXR2. E10PL- 102B	DXR2. E10PLX- 102B	DXR2. E17C- 103A	DXR2. E17CX- 103A
BACnet MS/TP	DXR2. M09- 101A	DXR2. M09T- 101A	DXR2. M10- 101A	DXR2. M11- 101A	DXR2. M12P- 102A	DXR2. M18-1..A		DXR2. M10PLX- 102B		

System functions (BACnet)

BACnet profiles	B-AAC										
Programming	•	•	•	•	•	•	•	•	•	•	•

Housing

DIN				•	•	•			•	•
Flat	•	•	•				•*	•*		

Operating voltage

230 V	•	•	•							
24 V				•	•	•	•	•	•	•

Inputs and outputs onboard

Resistor inputs									2	2
Digital inputs	1	1	1	1	1	2	1	1	2	2
Universal inputs	2	2	2	2	2	4	2	2	4	4
Relay outputs	3	1	3							
Triac outputs		4	4	6	6	8	4	4	4	4
Analog outputs (DC 0...10 V)	3	1		2	2	4	1	1	4	4
Pressure sensor					1					

Maximum configuration

Total data points	30	30	30	30	30	60	30	60	30	60
Integrated power supply for KNX (mA)	50	50	50	50	50	50	50	50	50	50

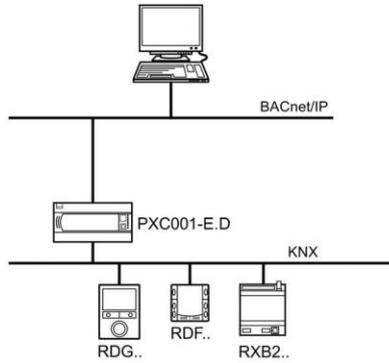
* Via damper

Room units and field devices

All room units and other KNX PL-Link devices shown in the section "Configurable room automation station" can also be used with a programmable room automation station as well as all devices with KNX PL-Link listed in the product part of this chapter.

Room Automation with KNX

Topology



Thermostat with KNX

									
Type	RDG100KN	RDG160KN	RDG400KN	RDF800KN	RDF600KN	RDF301	RDF301.50	RDF301.50H	RDU341
Applications									
Fan coil 2-/4-pipe	•	•		•	•	•	•	•	
Fan coil with electrical heater	•	•		•	•	•	•	•	
Fan coil with radiator	•	•							
Heating / cooling 2-/4-pipe	•	•		•					
Heat pump system		•		•	•	•	•		
Variable air volume (VAV)			•						•
VAV with electrical heater			•						•
VAV with radiator / heat-cool coil			•						
Design									
Wall-mounted	•	•	•						
Semi-flush-mounted				•	•	•	•	•	•
for VDE/CEE box				•	•				
for British Standard box				•	•	•	•	•	•
Touch screen display				•					
Buttons for light and blind control							•		
Button for hotel application								•	
Power supply									
Terminal voltage AC 230 V	•			•	•	•	•	•	
Terminal voltage AC 24 V		•	•						•
Inputs									
Multifunctional inputs digital/analog	3	3	3	2	2	2	2	2	2
Outputs									
ON/OFF (PWM) triac (H/C)	•		•						
ON/OFF relay (H/C)		•		•	•	•	•	•	•
Analog outputs DC 0..10V (H/C)		•	•						•
3-stage relay (fan)	•	•		•	•	•	•	•	
Analog DC 0..10 V (fan)		•							

Compact room controller RXB with KNX

RXB applications

RXB hardware

The product range comprises compact controllers and corresponding room units for comfortable control. The compact room controllers are optimized to the respective application with regard to input/output configuration. HVAC functions are operated via standard room units.

Communication is based on KNX S-mode. The fan coil room controllers also communicate in KNX LTE mode. KNX LTE mode is used to communicate with control equipment from the Synco™ 700 product range.

RXB software

Each RXB unit comes with preloaded application software featuring one or several applications (see next page). The ETS software helps engineer and commission a network with RXB units. In addition, the Synco™ tool and room unit QAX34.3 by Siemens can be used for commissioning and parameterization.

Connection to the Desigo building automation and control system

Desigo PX KNX allow flexibly connecting RXB controllers to the Desigo building automation and control system, and hence acts as a gateway to BACnet. The connection provides access to other functions such as time schedules and central control of set points. RXB thus fits into the overall expandable modular system, and ensures long-term cost-efficiency.

Integration into Synco™

The Synco™ central control unit RMB795 is used for controlling and monitoring the RXB controllers in a Synco™ system.

HVAC

<p>Chilled ceiling radiator-type systems</p>		<p>KNX (S- and LTE-mode)</p> 
	<p>Room units</p>	<p>Controllers</p>

Room automation

Overview and selection tools

3

Fields of application

The scope of RXB is defined by the preprogrammed application software. The following pages provide an overview of the options and the corresponding devices, divided into different areas of application. The devices are supplied preprogrammed with the applications. The required application can be selected by means of the ETS, Synco™ tool or the Handy tool QAX34.3.

Due to the fact that the applications are predefined, engineering simply involves the definition of a small number of parameters, e.g.:

- PWM or 3-position control of the valves and actuators
- Temperature set points
- Manual or automatic fan control
- Room operating units QAX3..., QAX84.1 (PPS2 interface)

Fan coil systems		
Application	Description	Devices
FNC02	2-pipe system with changeover	RXB21.1/FC-10
FNC03	2-pipe system with changeover and electrical reheater	RXB22.1/FC-12
FNC04	4-pipe system	RXB21.1/FC-10
FNC05	4-pipe system with electrical reheater	RXB22.1/FC-12
FNC08	4-pipe system with supply air temperature limitation	RXB21.1/FC-10
FNC10	2-pipe system with changeover and outside air damper	RXB21.1/FC-11
FNC12	4-pipe system with outside damper	RXB21.1/FC-11
FNC18	2-pipe system with changeover and radiator	RXB21.1/FC-11
FNC20	4-pipe system with air-side control	RXB21.1/FC-10
FNC02/03/04/08	2-pipe/4-pipe system with EC fan-coil support	RXB39.1/FC13

Common functions

- Window contact, occupancy detector, 4 operating modes
- Manual fan control with room unit
- Automatic fan control (RXB21.1/RXB22.1 3 speed; RXB39.1 continuous fan speed 0..10V)
- Options for 2-pipe systems: heating only, cooling only or changeover, via KNX bus

Heated/chilled ceilings and radiators		
Application	Description	Devices
CLC01	Chilled ceiling with dewpoint monitoring	RXB24.1/CC-02
CLC02	Chilled ceiling with dewpoint monitoring and radiator	RXB24.1/CC-02
RAD01	Radiator with downdraft compensation	RXB24.1/CC-02

Common functions

- Window contact, occupancy detector, 4 operating modes

Room units/PPS2								
QAX..		30.1	31.1	32.1	33.1	34.3	39.1	84.1
Features								
Display						•		•
Mode selection				•	•	•		•
Fan switch					•	•		•
Set point adjuster			•	•	•	•	•	•
Operation of lights/blinds								
Temperature sensor		•	•	•	•	•		•
Mounting								
Flush-mounted							•	•
Directly on wall		•	•	•	•	•		
Control panel (door)							•	
Communication								
PPS2		•	•	•	•	•	•	•
Product range								
Desigo RX	RXB..	•	•	•	•	•	•	•

Desigo room automation (BACnet)

Compact room automation stations BACnet/IP DXR1.E..

3

DXR1.E09PDZ..

Compact actuating room automation station DXR1.E09PDZ-..



- Compact, configurable room automation station in combination with actuator for HVAC
- BACnet IP communications (BTL certified)
- 2-port Ethernet switch
- USB interface
- Operating voltage AC 24 V
- Built-in 5 Nm actuator
- Internal 0...500 Pa differential pressure sensor
- Plug-in terminal blocks

Data sheet	A6V11393931
Operating voltage	AC 24 V +/-20 %
Frequency	50/60 Hz
Power consumption	Max. 7.5 VA
Communication	BACnet IP
Max. cable length	30 m
Digital outputs, number	4
Analog outputs, number	1
Degree of protection	IP20
Dimensions (W x H x D)	143.1 x 83.6 x 137 mm
Warranty	2 Years

Range overview DXR1.E09PDZ..

Product Title	Stock no.	Product no.
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	S55499-D456	DXR1.E09PDZ-112
Compact actuating room automation station DXR1.E09PDZ-..	S55499-D788	DXR1.E09PDZ-112/CA
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, FPB052	S55499-D457	DXR1.E09PDZ-113
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	S55499-D742	DXR1.E09PLZ-112

DXR1.E02PLZ-112

Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, pressure sensor, VAV011 (VAV012)



- Combination of compact room automation station and actuator for VAV control
- BACnet IP communications (BTL certified)
- 2-port Ethernet switch
- USB interface
- Operating voltage AC 24 V
- Built-in 10 Nm actuator
- Internal 0...500 Pa differential pressure sensor
- Plug-in terminal blocks

Data sheet	A6V11393935
Operating voltage	AC 24 V +/-20 % 24 V
Frequency	50/60 Hz
Power consumption	7 VA
Communication	BACnet IP
Max. cable length	30 m
Mounting	Directly on the damper shaft
Degree of protection	IP20
Dimensions (W x H x D)	143.1 x 83.6 x 137 mm
Warranty	2 Years

Product Title	Stock no.	Product no.
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, pressure sensor, VAV011 (VAV012)	S55499-D460	DXR1.E02PLZ-112

Compact actuating room automation station DXR1.E10PL-..

DXR1.E10PL..



- Compact, configurable room automation station in combination with actuator for HVAC
- BACnet IP communications (BTL certified)
- 2-port Ethernet switch
- USB interface
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- Operating voltage AC 24 V
- Built-in 10 Nm actuator
- Internal 0...500 Pa differential pressure sensor
- Plug-in terminal blocks

Data sheet	A6V11393933
Operating voltage	AC 24 V +/-20 %
Frequency	50/60 Hz
Power consumption	Max. 12 VA
Communication	BACnet IP
Max. cable length	30 m
Digital outputs, number	4
Analog outputs, number	1
Degree of protection	IP20
Dimensions (W x H x D)	143.1 x 83.6 x 137 mm
Warranty	2 Years

Range overview DXR1.E10PL..

Product Title	Stock no.	Product no.
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, VAV045	S55499-D458	DXR1.E10PL-112
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, VAV045	S55499-D789	DXR1.E10PL-112/US
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, FPB053	S55499-D459	DXR1.E10PL-113
Compact, configurable room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, FPB053	S55499-D790	DXR1.E10PL-113/US

Accessories for DXR1.E..

Product Title	Data sheet	Stock no.	Product no.
Air tube connection kit 50mm DXA.T50		S55499-D500	DXA.T50
Room sensor for DXR1 room automation stations	A6V11393922	S55499-D464	QMA1.N30H
Room unit for DXR1 room automation stations		S55499-D465	QMX1.M34H

Room automation

Desigo room automation (BACnet)

Compact room automation stations BACnet/MSTP DXR1.M..

DXR1.M09PDZ..



Compact actuating room automation station DXR1.M09PDZ-..

- Compact, configurable room automation station in combination with actuator for HVAC
- BACnet MS/TP communications (BTL certified)
- USB interface
- Operating voltage AC 24 V
- Built-in 5 Nm actuator
- Internal 0...500 Pa differential pressure sensor
- Plug-in terminal blocks

Data sheet	A6V11393929
Operating voltage	AC 24 V +/-20 %
Frequency	50/60 Hz
Power consumption	Max. 5.5 VA
Communication	BACnet MS/TP
Max. cable length	30 m
Universal inputs, number	2
Digital outputs, number	4
Analog outputs, number	1
Degree of protection	IP20
Dimensions (W x H x D)	143.1 x 83.6 x 137 mm
Warranty	2 Years

Range overview DXR1.M09PDZ..

Product Title	Stock no.	Product no.
Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	S55499-D462	DXR1.M09PDZ-112
Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, FPB052	S55499-D463	DXR1.M09PDZ-113
Compact, configurable room automation station and actuator combination, BACnet/MSTP, 24 V, 2 UI, 1 AO, 4 triac, pressure sensor, VAV044	S55499-D741	DXR1.M09PLZ-112

Accessories for DXR1.M..

Product Title	Data sheet	Stock no.	Product no.
Air tube connection kit 50mm DXA.T50		S55499-D500	DXA.T50
Room sensor for DXR1 room automation stations	A6V11393922	S55499-D464	QMA1.N30H
Room unit for DXR1 room automation stations		S55499-D465	QMX1.M34H

Room automation
Designo room automation (BACnet)
Compact room automation stations BACnet/IP DXR2.E..

Compact room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 30 data points

DXR2.E10PL-102B



Compact room automation stations and actuator combination for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- Damper Actuator 10Nm
- 2-port Ethernet switch
- USB interface for Tool
- 30 data points

Data sheet	A6V11259958
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	3
Triac outputs, number	4
Triac output, switching voltage	24 V
Triac output, switching current	0.15 A
Mounting	Directly on the damper shaft
Degree of protection	IP20
Dimensions (W x H x D)	201 x 137 x 82 mm

Stock no. Product no.

S55376-C145 DXR2.E10PL-102B

Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 60 data points

DXR2.E10PLX-102B



Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool
- 60 data points

Data sheet	A6V11259958
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	1
Triac outputs, number	4
Triac output, switching voltage	24 V
Triac output, switching current	0.15 A
Mounting	Directly on the damper shaft
Degree of protection	IP20
Dimensions (W x H x D)	201 x 137 x 82 mm

Stock no. Product no.

S55376-C146 DXR2.E10PLX-102B

Room automation

Desigo room automation (BACnet)

Compact room automation stations BACnet/IP DXR2.E..

DXR2.E12P..



Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac, pressure sensor

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	N9205
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	70 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	6
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Mounting	DIN rail
Degree of protection	IP20
Dimensions (W x H x D)	180 x 60 x 105 mm

Range overview DXR2.E12P..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac, pressure sensor, 30 data points	S55376-C108	DXR2.E12P-102A
Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac, pressure sensor, 30 data points, bulk pack 18 pcs.	S55376-C163	DXR2.E12P-102A/BP

Room automation
Designo room automation (BACnet)
Compact room automation stations BACnet/IP DXR2.E..

Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac

DXR2.E18..



Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	N9205
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	78 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	4
Digital inputs, number	2
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	8
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 105 x 60 mm

Range overview DXR2.E18..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, (Fancoil, Radiant ceiling, Radiator, 4 Lights & 2 Shades)	S55376-C107	DXR2.E18-101A
Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, bulk pack 18 pcs.	S55376-C162	DXR2.E18-101A/BP
Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, (Variable air volume, Fan-powered box, Radiant ceiling, Radiator, 4 Lights & 2 Shades)	S55376-C128	DXR2.E18-102A
Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, bulk pack 18 pcs.	S55376-C167	DXR2.E18-102A/BP



Room automation

Desigo room automation (BACnet)

Compact room automation stations BACnet/IP DXR2.E..

DXR2.E09..



Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 3 AO

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	N9204
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	24 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	3
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Relay outputs, number	3
Relay output, switching voltage	AC 250 V
Relay output, switching current	4 (3) A
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 165 x 49 mm

Range overview DXR2.E09..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 3 AO	S55376-C110	DXR2.E09-101A
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 3 AO, bulk pack 18 pcs.	S55376-C165	DXR2.E09-101A/BP

Room automation
Designo room automation (BACnet)
Compact room automation stations BACnet/IP DXR2.E..

Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 1 relay, 1 AO, 4 triac

DXR2.E09T..



Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	N9204
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	24 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Relay outputs, number	1
Relay output, switching voltage	AC 250 V
Relay output, switching current	4 (3) A
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	150 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 165 x 49 mm

Range overview DXR2.E09T..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 1 relay, 1 AO, 4 triac	S55376-C111	DXR2.E09T-101A
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 1 relay, 1 AO, 4 triac, bulk pack 18 pcs.	S55376-C166	DXR2.E09T-101A/BP

Room automation

Design room automation (BACnet)

Compact room automation stations BACnet/IP DXR2.E..

DXR2.E10..



Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 4 triac

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	24 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Relay outputs, number	3
Relay output, switching voltage	AC 250 V
Relay output, switching current	4 (3) A
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	150 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 165 x 49 mm

Range overview DXR2.E10..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 4 triac, bulk pack 18 pcs.	S55376-C164	DXR2.E10-101A/BP
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 4 triac	S55376-C109	DXR2.E10-101A

Room automation
Designo room automation (BACnet)
Compact room automation stations BACnet/IP DXR2.E..

Compact room automation stations, BACnet/IP, 24 V

DXR2.E10PL..

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool



Data sheet	A6V11259958
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	Max. 66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	3
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	150 mA
Degree of protection	IP20
Dimensions (W x H x D)	201 x 137 x 82 mm

Range overview DXR2.E10PL..

Product Title	Stock no.	Product no.
Compact room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 30 data points	S55376-C145	DXR2.E10PL-102B
Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 60 data points	S55376-C146	DXR2.E10PLX-102B

Accessories for DXR2..

Product Title	Data sheet	Stock no.	Product no.
Terminal cover for DXR.., 110 mm, 2 pieces		S55376-C119	DXA.H110
Air tube connection kit 50mm DXA.T50		S55499-D500	DXA.T50
Terminal cover for DXR.., 180 mm, 2 pieces		S55376-C120	DXA.H180
Cable Sash Sensor, 1270 mm	A6V11178716	S55376-C158	DXA.B130
Cable Sash Sensor, 2032 mm	A6V11178716	S55376-C159	DXA.B200

Room automation

Desigo room automation (BACnet)

Compact room automation stations BACnet/MSTP DXR2.M..

DXR2.M12P..



Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac, pressure sensor

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/MSTP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface for Tool

Data sheet	N9207
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	68 VA
Communication	BACnet/MSTP KNX PL-Link
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	6
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 60 x 105 mm

Range overview DXR2.M12..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac, pressure sensor, 30 data points	S55376-C114	DXR2.M12P-102A

Room automation
Designo room automation (BACnet)
Compact room automation stations BACnet/MSTP DXR2.M..

Compact room automation station, BACnet/MSTP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 3 AO

DXR2.M09-101A



Compact room automation stations for HVAC, lighting, and shading:

- BACnet/MSTP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface for Tool

Data sheet	N9206
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	23 VA
Communication	BACnet/MSTP
	KNX PL-Link
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	3
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Relay outputs, number	3
Relay output, switching voltage	AC 250 V
Relay output, switching current	4 (3) A
Mounting	DIN rail
	Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 49 x 165 mm

Stock no.

Product no.

S55376-C116

DXR2.M09-101A

Room automation

Desigo room automation (BACnet)

Compact room automation stations BACnet/MSTP DXR2.M..

DXR2.M09T-101A



Compact room automation station, BACnet/MSTP, 230 V, flat housing, 1 DI, 2 UI, 1 relay, 1 AO, 4 triac

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/MSTP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface for Tool

Data sheet	N9206
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	23 VA
Communication	BACnet/MSTP KNX PL-Link
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Relay outputs, number	1
Relay output, switching voltage	AC 250 V
Relay output, switching current	4 (3) A
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	150 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 49 x 165 mm

Stock no.

Product no.

S55376-C117

DXR2.M09T-101A

Room automation
Designo room automation (BACnet)
Compact room automation stations BACnet/MSTP DXR2.M..

Compact room automation station, BACnet/MSTP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 4 triac

DXR2.M10-101A



Compact room automation stations for HVAC, lighting, and shading:

- BACnet/MSTP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface for Tool

Data sheet	N9206
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	23 VA
Communication	BACnet/MSTP
	KNX PL-Link
Universal inputs, number	2
Digital inputs, number	1
Relay outputs, number	3
Relay output, switching voltage	250 V
Relay output, switching current	4 (3) A
Triac outputs, number	4
Triac output, switching voltage	24 V
Triac output, switching current	0.15 A
Mounting	DIN rail
	Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 49 x 165 mm

Stock no.	Product no.
S55376-C115	DXR2.M10-101A

Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac

DXR2.M11-101A



Compact room automation stations for HVAC, lighting, and shading:

- BACnet/MSTP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface for Tool

Data sheet	N9207
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	68 VA
Communication	BACnet/MSTP
	KNX PL-Link
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	6
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Mounting	DIN rail
	Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 60 x 105 mm

Stock no.	Product no.
S55376-C112	DXR2.M11-101A

Room automation

Desigo room automation (BACnet)

Compact room automation stations BACnet/MSTP DXR2.M..

DXR2.M18..



Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/MSTP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface for Tool

Data sheet	N9207
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	76 VA
Communication	BACnet/MSTP KNX PL-Link
Universal inputs, number	4
Digital inputs, number	2
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	8
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 60 x 105 mm

Range overview DXR2.M18..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, (Fancoil, Radiant ceiling, Radiator, 4 Lights & 2 Shades)	S55376-C113	DXR2.M18-101A
Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, (Variable air volume, Fan-powered box, Radiant ceiling, Radiator, 4 Lights & 2 Shades)	S55376-C129	DXR2.M18-102A

Room automation
Designo room automation (BACnet)
Compact room automation stations BACnet/MSTP DXR2.M..

Compact room automation station, BACnet/MSTP, 24 V

DXR2.M10PL..

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/MSTP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface for Tool



Data sheet	A6V11259964
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	Max. 58 VA
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Degree of protection	IP20
Dimensions (W x H x D)	201 x 137 x 99 mm

Range overview DXR2.M10PL..

Product Title	Stock no.	Product no.
Compact room automation station and actuator combination, BACnet/MSTP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 30 data points	S55376-C147	DXR2.M10PL-102B
Compact room automation station, BACnet/MSTP, 24 V, DIN housing, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 60 data points	S55376-C148	DXR2.M10PLX-102B

Accessories for DXR2..

Product Title	Data sheet	Stock no.	Product no.
Terminal cover for DXR.., 110 mm, 2 pieces		S55376-C119	DXA.H110
Air tube connection kit 50mm DXA.T50		S55499-D500	DXA.T50
Terminal cover for DXR.., 180 mm, 2 pieces		S55376-C120	DXA.H180
Cable Sash Sensor, 1270 mm	A6V11178716	S55376-C158	DXA.B130
Cable Sash Sensor, 2032 mm	A6V11178716	S55376-C159	DXA.B200



Desigo room automation (BACnet)
Modular room automation station PXC3..

PXC3.E..



Room automation stations

Modular, programmable room automation stations for HVAC, lighting, and shading.

- BACnet / IP communications; BACnet profile AAC (BTL label).
- Optional island bus (including bus power supply) to connect TX-I/O modules with any data point mix.
- Optional KNX PL-Link peripheral bus (including bus power supply) to connect sensors, actors and room units.
- Optional DALI-2 bus (including bus power supply) to connect ballasts and certified DALI-2 input devices.
- Optional Connection of individual devices with KNX S-Mode via KNX PL Link.
- Ethernet switch for communication and tool connection.
- USB Device interface.
- Operating voltage AC 24 V.
- Mounting on standard mounting rail.

Data sheet	N9203
Operating voltage	AC 24 V
Frequency	50/60 Hz
Degree of protection	IP20
Dimensions (W x H x D)	162 x 74 x 90 mm

Range overview PXC3.E..

Product Title	Stock no.	Product no.
Room automation station BACnet / IP and DALI-2	S55376-C177	PXC3.E16A-200A
Room automation station BACnet / IP, for up to 4 rooms / 8 room segments	S55376-C130	PXC3.E72-100A
Room automation station BACnet / IP and DALI-2, for up to 4 rooms / 8 room segments	S55376-C178	PXC3.E72A-200A
Room automation station BACnet / IP and DALI-2, for up to 8 rooms / 16 room segments	S55376-C179	PXC3.E75A-200A
Room automation station BACnet / IP, for up to 8 rooms / 16 room segments	S55376-C132	PXC3.E75-100A

Room operator unit for KNX PL-Link, room temperature sensor

QMX2.P33

Functionality:

- Room temperature sensor
- LCD display of room temperature, operating modes, etc.
- Operation with 8 push buttons
- Interface KNX PL-Link (for TRA, with plug and play functionality)
- Powered over KNX PL-Link



Data sheet	A6V10733768
Operating voltage	KNX PL-Link DC 21...30 V
Power consumption	Max. 7...10 mA
Measuring range, temperature	0...50°C
Communication	KNX PL-Link
Mounting	Wall mounting
Degree of protection	Housing Protection: IP30 Protection standard as per EN 60529: IP33 for surface part
Dimensions (W x H x D)	89 x 133 x 21 mm
Weight (net)	0.146 kg

Stock no.	Product no.
S55624-H118	QMX2.P33

Room operator unit for KNX PL-Link, room temperature sensor and humidity sensor

QMX2.P43

Functionality:

- Room temperature sensor
- Humidity sensor
- LCD display of room temperature, operating modes, etc.
- Operation with 8 push buttons
- Interface KNX PL-Link (for TRA, with plug and play functionality)
- Powered over KNX PL-Link



Data sheet	A6V10733768
Operating voltage	KNX PL-Link DC 21...30 V
Power consumption	Max. 7...10 mA
Measuring range, temperature	0...50°C
Communication	KNX PL-Link
Mounting	Wall mounting
Degree of protection	Housing Protection: IP30 Protection standard as per EN 60529: IP33 for surface part
Dimensions (W x H x D)	89 x 133 x 21 mm
Weight (net)	0.146 kg

Stock no.	Product no.
S55624-H117	QMX2.P43



3

QMX3.P..H..

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen

Functions:

- * Temperature sensor
- * Dot matrix backlit display and touch screen
- * PM2.5 and CO2 display

Data sheet	A6V11521633
Operating voltage	DC 21...30 V
Voltage supply	KNX PL-Link
Power consumption	Max. 15 mA at DC 24 V
Measuring range	0...50 °C
Degree of protection	IP30

QMX3.P35H

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen, white



Functions:

- Temperature sensor
- Dot matrix backlit display and touch screen

Data sheet	A6V11521633
Color	White
Dimensions (W x H x D)	86.2 x 88.2 x 17.2 mm

Stock no. Product no.

S55624-H137 QMX3.P35H

QMX3.P35H-BSC

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen, black



Functions:

- * Temperature sensor
- * Dot matrix backlit display and touch screen
- * PM2.5 and CO2 display

Data sheet	A6V11521633
Color	Black
Dimensions (W x H x D)	86.2 x 88.2 x 17.2 mm

Stock no. Product no.

S55624-H139 QMX3.P35H-BSC

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen, Lighting/Blinds, white

QMX3.P38H

Functions:

- Temperature sensor
- Dot matrix backlit display and touch screen
- PM2.5 and CO2 display
- Lighting/Blinds Control



Data sheet	A6V11521633
Color	White
Dimensions (W x H x D)	86.2 x 88.2 x 17.2 mm

Stock no.	Product no.
S55624-H138	QMX3.P38H

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen, Lighting/Blinds, black

QMX3.P38H-BSC

Functions:

- * Temperature sensor
- * Dot matrix backlit display and touch screen
- * PM2.5 and CO2 display
- * Lighting/Blinds Control



Data sheet	A6V11521633
Color	Black
Dimensions (W x H x D)	86.2 x 88.2 x 17.2 mm

Stock no.	Product no.
S55624-H140	QMX3.P38H-BSC

Room sensor and unit for KNX PL-Link, freely configurable, flush-mounted

QMX3.P36..

The flush-mounted room unit QMX3.. consists of:

- Operator unit
- Bezel, titanium white
- Base plate and KNX plug.

Functionality:

- Freely configurable user interface (keys and visual items) as part of Total Room Automation
- RoomOptiControl energy efficiency function
- Room temperature measurement
- Display of room temperature, control mode, scenes etc. (dot matrix LCD)
- Backlit display, white or blue selection
- KNX PL-Link interface to the room automation station with plug & play functionality
- Can be combined with different standard and design bezels



Data sheet	N1601
Voltage supply	KNX bus
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link
Dimensions (W x H x D)	55 x 55 x 38 mm

Range overview QMX3..

Product Title	Stock no.	Product no.
Room unit for KNX PL-Link, freely configurable, flush-mounted with square bezel	S55624-H100	QMX3.P36F
Room unit for KNX PL-Link, freely configurable, flush-mounted with landscape bezel (3 modules landscape)	S55624-H101	QMX3.P36G



QMX3..

Wall-mounted room sensors and operator units for KNX

The wall-mounted room unit QMX3.. consists of:

- Base plate
- Sensor or room operator unit

The following functions are (depending on type):

- Temperature sensor or multisensor (T, r.h., CO2)
- Backlit display or LED display
- Touchkeys
- Switching and control of lighting, blinds, scenes

Data sheet	N1602
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link
	KNX S-Mode
Degree of protection	IP30

QMX3.P02

Room operator unit KNX with temperature sensor, configurable touchkeys, LED display, white



Functions:

- Temperature sensor
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

Stock no.	Product no.
S55624-H107	QMX3.P02

QMX3.P02-1BSC

Room operator unit KNX with temperature sensor, configurable touchkeys, LED display, black



Functions:

- Temperature sensor
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

Stock no.	Product no.
S55624-H128	QMX3.P02-1BSC

Room sensor KNX for temperature, white

QMX3.P30

Functions:

- Temperature sensor

Data sheet N1602
 Dimensions (W x H x D) 88.4 x 133.4 x 18 mm



Stock no.	Product no.
S55624-H103-A	QMX3.P30

Room sensor KNX for temperature, black

QMX3.P30-1BSC

Functions:

- Temperature sensor

Data sheet N1602
 Dimensions (W x H x D) 88.4 x 133.4 x 18 mm



Stock no.	Product no.
S55624-H123	QMX3.P30-1BSC

Room operator unit KNX with temperature sensor, segmented backlit display, touchkeys, white

QMX3.P34

Functions:

- Temperature sensor
- Segmented backlit display and touchkeys

Data sheet N1602
 Dimensions (W x H x D) 88.4 x 133.4 x 18 mm



Stock no.	Product no.
S55624-H105-A	QMX3.P34

Room automation

Desigo room automation (BACnet)

Room unit with KNX PL-Link

QMX3.P34-1BSC



Room operator unit KNX with temperature sensor, segmented backlit display, touchkeys, black

Functions:

- Temperature sensor
- Segmented backlit display and touchkeys

Data sheet

N1602

Dimensions (W x H x D)

88.4 x 133.4 x 18 mm

Stock no.

Product no.

S55624-H126

QMX3.P34-1BSC

QMX3.P37



Room operator unit KNX with temperature sensor, segmented backlit display, configurable touchkeys, LED display, white

Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels

Data sheet

N1602

Dimensions (W x H x D)

88.4 x 133.4 x 18 mm

Stock no.

Product no.

S55624-H108

QMX3.P37

QMX3.P37-1BSC



Room operator unit KNX with temperature sensor, segmented backlit display, configurable touchkeys, LED display, black

Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels

Data sheet

N1602

Dimensions (W x H x D)

88.4 x 133.4 x 18 mm

Stock no.

Product no.

S55624-H129

QMX3.P37-1BSC

3

Room sensor KNX for temperature and humidity, white

QMX3.P40

Functions:

- Multisensor for temperature and humidity

Data sheet N1602
 Dimensions (W x H x D) 88.4 x 133.4 x 18 mm



Stock no.	Product no.
S55624-H116	QMX3.P40

Room sensor KNX for temperature and humidity, black

QMX3.P40-1BSC

Functions:

- Multisensor for temperature and humidity

Data sheet N1602
 Dimensions (W x H x D) 88.4 x 133.4 x 18 mm



Stock no.	Product no.
S55624-H124	QMX3.P40-1BSC

Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, white

QMX3.P44

Functions:

- multisensor for temperature and humidity
- Segmented backlit display and touchkeys

Data sheet N1602
 Dimensions (W x H x D) 88.4 x 133.4 x 18 mm



Stock no.	Product no.
S55624-H143-A	QMX3.P44

Room automation

Design room automation (BACnet)

Room unit with KNX PL-Link

3

QMX3.P44-1BSC



Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, black

Functions:

- Multisensor for temperature and humidity
- Segmented backlit display and touchkeys

Data sheet

N1602

Dimensions (W x H x D)

88.4 x 133.4 x 18 mm

Stock no.

Product no.

S55624-H144

QMX3.P44-1BSC

QMX3.P70



Room sensor KNX for temperature, humidity, CO2, white

Functions:

- Multisensor for temperature, humidity and CO2
- Air quality indicator with LED

Data sheet

N1602

Dimensions (W x H x D)

88.4 x 133.4 x 18 mm

Stock no.

Product no.

S55624-H104-A

QMX3.P70

QMX3.P70-1BSC



Room sensor KNX for temperature, humidity, CO2, black

Functions:

- multisensor for temperature, humidity and CO2
- Air quality indicator with LED

Data sheet

N1602

Dimensions (W x H x D)

88.4 x 133.4 x 18 mm

Stock no.

Product no.

S55624-H125

QMX3.P70-1BSC

Room operator unit KNX with sensors for temperature, humidity, CO2, segmented backlit display, touchkeys, white

QMX3.P74

Functions:

- multisensor for temperature, humidity and CO2
- Segmented backlit display and touchkeys

Data sheet N1602
 Dimensions (W x H x D) 88.4 x 133.4 x 18 mm



Stock no. Product no.
 S55624-H106-A QMX3.P74

Room operator unit KNX with sensors for temperature, humidity, CO2, segmented backlit display, touchkeys, black

QMX3.P74-1BSC

Functions:

- Multisensor for temperature, humidity and CO2
- Segmented backlit display and touchkeys

Data sheet N1602
 Dimensions (W x H x D) 88.4 x 133.4 x 18 mm



Stock no. Product no.
 S55624-H127 QMX3.P74-1BSC

Accessories for QMX3..

Product Title	Data sheet	Stock no.	Product no.
Basic plate for conduit and cavity wall box	N1602	S55624-H110	QMX3.MP1

Front modules for base module

- Front module with sensors

Data sheet N1411
 Color Titanium white
 Degree of protection IP30
 Warranty 5 Years



Range overview AQR253..

Measuring range, temperature [°C]	Measurement range humidity [% r.h.]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.
0...50	0...100		55 x 55 x 12	S55720-S138	AQR2534ANW
			55 x 55 x 12	S55720-S137	AQR2530NNW
0...50	0...100		55 x 55 x 12	S55720-S136	AQR2532NNW
0...50			55 x 55 x 12	S55720-S141	AQR2535NNW
0...50	0...100	CO ₂ indicator by LED	55 x 55 x 38	S55720-S219	AQR2535NNWQ

The matching design frame must be ordered separately.

Room automation

Design room automation (BACnet)

Room unit with KNX PL-Link

Frames for front modules AQR253..

Product Title	Data sheet	Stock no.	Product no.
Frame DELTA line for front module	N1410	S55720-S158	AQR2510NFW
Frame DELTA azio for front module	N1410	S55720-S160	AQR2510NGW
Frame DELTA miro for front module	N1410	S55720-S159	AQR2510NHW

AQR2570..



Base module with KNX for temperature and humidity measurement

- Base module without sensor for plugging onto a front module
- 1 analog input to connect temperature sensors with NTC 10k sensing element to measure room, floor, or ceiling temperature
- 2 multifunctional binary inputs to connect window contacts or buttons
- Power supply via KNX bus, bus load < 5 mA

Data sheet	N1411
Analog inputs, number	1
Analog inputs	Passive temperature sensor NTC 10k
Digital inputs, number	2
Digital inputs	Potential-free contacts
Warranty	5 Years

Range overview AQR2570..

Mechanical design	Data sheet	Stock no.	Product no.
EU (CEE/VDE)	N1411	S55720-S203	AQR2570NF
IT (3 Modular)	N1411	S55720-S205	AQR2570NG
UK (British Standard)	N1411	S55720-S204	AQR2570NH
US (UL)	N1411	S55720-S206	AQR2570NJ

AQR2576..



Base modules with KNX for CO₂ measurement

- Base module with maintenance and recalibration-free CO₂ sensor to plug onto a front module
- 1 analog input to connect temperature sensors with NTC 10k sensing element to measure room, floor, or ceiling temperature
- 2 multifunctional binary inputs to connect window contacts or buttons
- Power supply via KNX bus, bus load < 5 mA

Data sheet	N1411
Voltage supply	KNX bus
Measuring range	CO ₂ : 0...5000 ppm
Analog inputs, number	1
Analog inputs	Passive temperature sensor NTC 10k
Digital inputs, number	2
Digital inputs	Potential-free contacts
Warranty	5 Years

Range overview AQR2576..

Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.
EU (CEE/VDE)	71 x 71 x 45	S55720-S207	AQR2576NF
IT (3 Modular)	71 x 71 x 45	S55720-S209	AQR2576NG
UK (British Standard)	71 x 71 x 45	S55720-S208	AQR2576NH
US (UL)	64 x 110 x 45	S55720-S210	AQR2576NJ

Room automation
Desigo room automation (BACnet)
Pushbutton interface UP 220/31 with KNX PL-Link

Pushbutton interface 4 x potential-free contact, output for LED control

- With 4 inputs / outputs each configurable for potential-free contacts or for control of an LED (max 2 mA)
- With integrated bus coupling unit, bus connection via bus terminal
- 8-wire plug-in cable set, 280 mm long, extendable to a max. of 10 m
- For insertion in flush-mounting switch and socket boxes 60 mm in diameter and 40 mm deep

Data sheet A6V10416090
Number of inputs potentialfree 4

UP 220D31



Stock no. Product no.
5WG1220-2DB31 UP 220D31

3

Room automation

Desigo room automation (BACnet)

Pushbutton with KNX PL-Link

UP 22..



Pushbutton, i-system

- Pushbutton in pair
- Horizontal operation
- Per pushbutton selectable function
- LED for orientation light
- Labeling field
- Connectable bus coupling unit (BTM) or flush-mounted actuators via BTI

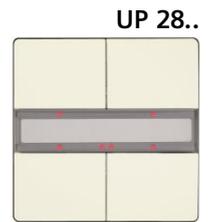
Range overview UP 22..

Product Title	Dimensions (WxHxD) [mm]	Stock no.	Product no.
Pushbutton, single, without status LED, titanium white, i-system	55 x 55 x 11	5WG1221-2DB12	UP 221/12
Pushbutton, single, with status LED, titanium white, i-system	55 x 55 x 11	5WG1221-2DB13	UP 221/13
Pushbutton, single, without status LED, aluminum metallic, i-system	55 x 55 x 11	5WG1221-2DB32	UP 221/32
Pushbutton, single, with status LED, aluminum metallic, i-system	55 x 55 x 11	5WG1221-2DB33	UP 221/33
Pushbutton, double, without status LED, titanium white, i-system	55 x 55 x 11	5WG1222-2DB12	UP 222/12
Pushbutton, double, with status LED, titanium white, i-system	55 x 55 x 11	5WG1222-2DB13	UP 222/13
Pushbutton, double, without status LED, aluminum metallic, i-system	55 x 55 x 11	5WG1222-2DB32	UP 222/32
Pushbutton, double, with status LED, aluminum metallic, i-system	55 x 55 x 11	5WG1222-2DB33	UP 222/33
Pushbutton, triple, without status LED, titanium white, i-System	55 x 55 x 11	5WG1223-2DB12	UP 223/12
Pushbutton, triple, with status LED, titanium white, i-System	55 x 55 x 11	5WG1223-2DB13	UP 223/13
Pushbutton, triple, without status LED, aluminum metallic, i-system	55 x 55 x 11	5WG1223-2DB32	UP 223/32
Pushbutton, triple, with status LED, aluminum metallic, i-system	55 x 55 x 11	5WG1223-2DB33	UP 223/33

3

Pushbutton, DELTA style

- Pushbutton in pair
- Vertical operation
- Per pushbutton selectable function
- LED for orientation light
- Labeling field
- Connectable bus coupling unit (BTM) or flush-mounted actuators via BTI



Range overview UP 28..

Product Title	Dimensions (WxHxD) [mm]	Stock no.	Product no.
Pushbutton, single, without status LED, titanium white, DELTA style	68 x 68 x 14	5WG1285-2DB12	UP 285/12
Pushbutton, single, with status LED, titanium white, DELTA style	68 x 68 x 14	5WG1285-2DB13	UP 285/13
Pushbutton, single, without status LED, platinum metallic, DELTA style	68 x 68 x 14	5WG1285-2DB42	UP 285/42
Pushbutton, single, with status LED, platinum metallic, DELTA style	68 x 68 x 14	5WG1285-2DB43	UP 285/43
Pushbutton, double, without status LED, titanium white, DELTA style	68 x 68 x 14	5WG1286-2DB12	UP 286/12
Pushbutton, double, with status LED, titanium white, DELTA style	68 x 68 x 14	5WG1286-2DB13	UP 286/13
Pushbutton, double, without status LED, platinum metallic, DELTA style	68 x 68 x 14	5WG1286-2DB42	UP 286/42
Pushbutton, double, with status LED, platinum metallic, DELTA style	68 x 68 x 14	5WG1286-2DB43	UP 286/43
Pushbutton, quadruple, without status LED, titanium white, DELTA style	68 x 68 x 14	5WG1287-2DB12	UP 287/12
Pushbutton, quadruple, with status LED, titanium white, DELTA style	68 x 68 x 14	5WG1287-2DB13	UP 287/13
Pushbutton, quadruple, without status LED, platinum metallic, DELTA style	68 x 68 x 14	5WG1287-2DB42	UP 287/42
Pushbutton, quadruple, with status LED, platinum metallic, DELTA style	68 x 68 x 14	5WG1287-2DB43	UP 287/43

Accessories for pushbutton with KNX PL-Link

Bus transceiver modules, mounting depth 18 mm

- For connection of a modular bus device to the bus line
- 10-pole BTI socket (BTI - Bus Transceiver Interface) for plugging of bus terminal devices with BTI connector
- For installation in flush-mounting switch and socket boxes with Ø 60 mm in diameter 40 mm deep
- Screw fixing
- Bus connection via bus terminal



Data sheet A6V10416065
 Dimensions (W x H x D) 71 x 71 x 18 mm

Stock no.	Product no.
5WG1117-2AB12	UP 117/12



TXM1.8D



8 Digital Input Module

8 digital input, signaling per input with three-colored LED (green, yellow, red).

8 DI, individually configurable as:

- Message signal
- Message impulse with storage functions
- Counter impulse for up to a maximum of 10 Hertz

Data sheet	N8172
Operating voltage	DC 22.5...26 V
Power consumption	1.1 W
Digital inputs, number	8
Weight (net)	0.164 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.8D	TXM1.8D

TXM1.16D



16 Digital Input Module

16 digital input, signaling per input with green LED.

16 DI, individually configurable as:

- Message signal
- Message impulse with storage functions
- 8 inputs as counter impulse for up to a maximum of 10 Hertz

Data sheet	N8172
Operating voltage	DC 22.5...26 V
Power consumption	1.4 W
Digital inputs, number	16
Weight (net)	0.199 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.16D	TXM1.16D

TXM1.6R



6 Relay output module

6 outputs signaled with green LED.

6 DO (relay switch), individually configurable as:

- Continuous or impulse contact
- Single-stage or multi-stage
- Three-point positioning output with internal stroke model
- Switching voltage AC 12...250 V / DC 12...30 V
- Switching current max. 4 A

Hardware bolting device is by means of external wiring the two-way contacts.

Data sheet	N8175
Operating voltage	DC 22.5...26 V
Power consumption	1.7 W
Relay outputs, number	6
Weight (net)	0.231 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.6R	TXM1.6R

6 Relay output module, bistable

TXM1.6RL

6 outputs signaled with green LED.

- 6 DO (volt-free, bistable), individually configurable as:
- Switching of fluorescent lamps (number of ballasts see data sheet)
 - Configurable behavior in case of power failure and bus failure
 - Max. inrush current 800 A (20 μs), 165 A (20 ms)
 - Switching voltage AC 24...277 V
 - Switching current max. 10 A (cos φ = 0.8)

For use with the following automation stations:

- PXC22.1...D
- PXC36.1...D
- PXC50...D
- PXC100...D
- PXC200...D
- PXC3..

Data sheet	N8177
Operating voltage	DC 22.5...26 V
Power consumption	0.8 W
Relay output, switching voltage	AC 24...277 V
Weight (net)	0.27 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm



	Stock no.	Product no.
	S55661-J103	TXM1.6RL

8 Relay output module for blinds control

TXM1.8RB

8 relay outputs for blinds control, signaled with green LED, without local operation.

- 8 DO (non-floating):
- 4 blinds motors with 2 end switches
 - 2 blinds motors with 3 end switches
 - 2 blinds motors with 2 end switches + 1 blinds motor with 3 end switches
 - Current measurement for each blinds motor
 - Switching voltage AC 100... 250 V
 - Switching current max. 3 A (motor)

Easy-to-understand operation:

- Local priority operation as per VDI3814
- Simple display concept with LCD and colored LEDs

Data sheet	N8178
Power consumption	1.4 W
Relay output, switching voltage	AC 100...250 V
Weight (net)	0.225 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm



	Stock no.	Product no.
	S55661-J105	TXM1.8RB

TXM1.8T



8 Triac output module

8 Triac outputs, signaled with green LED.

8 AO, configurable for:

- Permanent contact
- Three-point positioning output with internal stroke model
- Pulsewidth-modulated output (PWM)
- Switching voltage AC 24 V
- Switching current AO 3-position: 250 mA / 6 VA per output
- Switching current AO PWM, BO: 125 mA / 3 VA per output

Data sheet	N8179
Operating voltage	DC 22.5...26 V
Power consumption	1 W
Weight (net)	0.198 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
S55661-J106	TXM1.8T

TXM1.8U



8 Universal I/O Module

8 inputs/outputs signaled with green LED.

8 universal I/O points, individually configurable as:

- DI: Message signal, message impulse or counter impulse (25 Hertz)
- AI: Temperature sensor or DC 0...10 V
- AO: DC 0...10 V

Data sheet	N8173
Operating voltage	DC 22.5...26 V
Power consumption	1.5 W
Weight (net)	0.179 kg
Dimensions (W x H x D)	64 x 77.5 x 98 mm

Stock no.	Product no.
BPZ:TXM1.8U	TXM1.8U

TXS1.12F10



TX-I/O Power Supply Modules 24 VDC Supply 1200 mA, 10 A Fuse

Up to 4 power supply modules can be operated in parallel

AC 24 Volt input

Generation / transfer of DC 24 V, 1.2A for the supply of TX-I/O modules and field devices

Fresh provision of AC 24 V for field device supply

Transfer of the bus signal

Data sheet	N8183
Operating voltage	AC/DC 24 V
Weight (net)	0.309 kg
Dimensions (W x H x D)	96 x 77.4 x 98 mm

Stock no.	Product no.
BPZ:TXS1.12F10	TXS1.12F10

Island bus expansion module for decentralized sub-islands with TX-I/O-modules

TXA1.IBE

- Expand island bus to a distance of up to 2 x 200 meters
- Compact design per DIN 43 880, requires little space
- With LED to monitor communication status
- Easy installation and setup:
- Mounted on standard rails
- Self-connecting bus (island bus) for the easiest possible installation
- Plug-in screw terminals for island bus expansion
- No programming / parameterization tool required



Data sheet	N8184
Operating voltage	AC 24 V
Power consumption	1.2 W
Weight (net)	0.064 kg
Dimensions (W x H x D)	32 x 77.5 x 98 mm

	Stock no.	Product no.
	BPZ:TXA1.IBE	TXA1.IBE

BUS Connection Module, 10A Fuse

TXS1.EF10

Transfer of DC 24 V for the supply of TX-I/O modules and field devices
 Fresh provision of AC / DC 12 ... 24 V for field device supply
 Transfer of the bus signal



Data sheet	N8183
Operating voltage	AC/DC 24 V
Weight (net)	0.082 kg
Dimensions (W x H x D)	32 x 77.5 x 98 mm

	Stock no.	Product no.
	BPZ:TXS1.EF10	TXS1.EF10

Set of address keys for TXM..

Product Title	Data sheet	Stock no.	Product no.
Address Keys 1-12 + reset key	N8170	BPZ:TXA1.K12	TXA1.K12
Address Keys 1-24 + 2 reset keys	N8170	BPZ:TXA1.K24	TXA1.K24
Address keys 25-48 + 2 reset keys	N8170	BPZ:TXA1.K-48	TXA1.K-48
Address keys 49-72 + 2 reset keys	N8170	BPZ:TXA1.K-72	TXA1.K-72
Address keys 73-96 + 2 reset keys	N8170	S55661-J101	TXA1.K-96
Address keys 97-120 + 2 reset keys	N8170	S55661-J102	TXA1.K-120
Address key 5, 10 ... 120 + 2 reset keys	N8170	BPZ:TXA1.5K120	TXA1.5K120

Labels / Labels holders

Product Title	Data sheet	Stock no.	Product no.
Labels (sheet A4 with 9 labels)	N8170	BPZ:TXA1.LA4	TXA1.LA4
Spare transparent label holders (10 pcs.)	N8170	TXA1.LH	TXA1.LH
Spare transparent label holders (10 pcs.)	N8170	S55661-J107	TXA1.LH2

Desigo room automation (BACnet)

Fan coil I/O block with KNX PL-Link

RXM21.1



I/O block with KNX PL-Link block for use with a PXC3.E7.. series room automation station

The I/O block with KNX PL-Link, RXM21.1 contains the inputs and outputs required by a PXC3 series room automation station for a Fancoil application.

- KNX PL-Link bus communication
- Valve control (3 potential-free relay contacts)
- Thermal valve actuator control (AC 24 V)
- Motor-driven valve and damper actuators (AC 24 V, 2- or 3-point)
- Pluggable screw terminals

Data sheet	N3835
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	12 VA
Communication	KNX PL-Link
Analog inputs, number	1
Digital inputs, number	2
Relay outputs, number	3
Relay output, switching voltage	AC 250 V
Relay output, switching current	5 (4) A
Triac outputs, number	4
Triac outputs	ON/OFF
Triac output, switching voltage	AC 24 V
Triac output, switching current	0.5 A
Mounting	DIN rail
Mounting location	For screw fixing
	Ceiling voids with cover
	Panel installation box
Degree of protection	IP20
Dimensions (W x H x D)	113 x 167 x 62 mm

Stock no.	Product no.
S55376-C104	RXM21.1

I/O block with KNX PL-Link for use with a PXC3.E7.. series room automation station

RXM39.1



The I/O block with KNX PL-Link, RXM39.1 contains the inputs and outputs required by a PXC3 series room automation station for a fan-coil application.

- KNX PL-Link bus communication
- Fan control (ECM fan, DC 0...10 V)
- Actuator control DC 0...10 V
- Electric heating control DC 0...10 V
- Potential-free relay contacts to release fan and electric heating
- Plug-in screw terminals

Data sheet	N3836
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	12 VA
Communication	KNX PL-Link
Analog inputs, number	2
Analog outputs, number	3
Digital inputs, number	4
Relay outputs, number	1
Electric reheater relay	1
Relay output, switching voltage	AC 250 V
Relay output, switching current	5 (4) A
Mounting	DIN rail
	For screw fixing
Mounting location	Ceiling voids with cover
	Panel
	installation box
Degree of protection	IP20
Dimensions (W x H x D)	152 x 120 x 62 mm

	Stock no.	Product no.
	S55376-C105	RXM39.1

Accessories for RXM..

Product Title	Data sheet	Stock no.	Product no.
Terminal cover for RXB2..	N3834	BPZ:RXZ20.1	RXZ20.1
Terminal cover for RXB3..	N3840	BPZ:RXZ30.1	RXZ30.1



**Desigo room automation (BACnet)
Room control box with KNX PL-Link**

3

RL 260/23



Binary Input 4 x AC/DC 12...230 V

- 4 Inputs for AC/DC 12...230 V
- Max. cable length, unshielded, twisted 100 m
- Bus-powered electronics
- Integrated bus coupling unit, with bus connection via bus terminal block
- Type of protection: IP 20
- Screw-less terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5...2.5 mm²
- For mounting in AP 118 automation module box or AP 641 room control box

The AP 641 room control box and AP 118 automation module box must be ordered separately. See Chapter Modular Installation System - Room control box - Module boxes.

Data sheet A6V10416114

Stock no.	Product no.
5WG1260-4AB23	RL 260/23

RL 513D23



Binary Output 3 x 6 A, AC 230 V

- 3 floating relay contact
- One relay contact per output as switching element
- Contact rated current according to DIN EN 60669-1: 6 A (resistive load)
- Bus-powered electronics
- Integrated bus coupling unit, bus connection via bus terminal block
- Type of protection: IP 20
- Rated contact operating voltage AC 230 V
- Rated contact frequency: 50/60 Hz
- Screw-less terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5...2.5 mm²
- For mounting in AP 118 automation module box or AP 641 room control box

The AP 641 room control box and AP 118 automation module box must be ordered separately. See chapter Modular Installation System - Room control box - Module boxes.

Data sheet	A6V11375522
Rated voltage	AC 230 V
Rated current	6 A
Number of channels	3
Dimensions (W x H x D)	86.5 x 47.8 x 36.2 mm

Stock no.	Product no.
5WG1513-4DB23	RL 513D23

Binary Output 2 x AC 230 V, 10 A

UP 510/..3

- Rated contact voltage AC 230 V
- 2 floating relay contacts
- Rated contact current 10 A
- Screwless terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5...2.5 mm²
- Bus-powered electronics
- Integrated bus coupling units, bus connection via bus terminal
- For insertion in flush-mounting switch and socket boxes 60 mm in diameter and 60 mm deep



Range overview UP 510/..3

Product Title	Dimensions (WxHxD) [mm]	Stock no.	Product no.
Binary Output 2 x AC 230 V, 10 A, with mounting frame and BTI interface	71 x 71 x 42	5WG1510-2AB03	UP 510/03
Binary Output 2 x AC 230 V, 10 A	50 x 50.9 x 41.3	5WG1510-2AB13	UP 510/13

Binary Output, 2 x AC 230 V, 10 A (resistive load)

RS 510/23

- Rated contact frequency: 50/60 Hz
- 2 floating relay contacts
- Contact rated current according to DIN EN 60669-1: 10 A (resistive load)
- Bus-powered electronics
- Integrated bus coupling unit, bus connection via bus terminal
- Type of protection: IP 20
- Rated contact voltage AC 230 V
- Screw-less terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- With bus connection module
- Modular installation device for mounting in AP 118 automation module box or AP 641 room control box



The AP 641 room control box and AP 118 automation module box must be ordered separately. See chapter Modular Installation System - Room control box - Module boxes.

Data sheet	A6V10416153
Rated voltage	AC 230 V
Rated current	10 A
Number of channels	2
Dimensions (W x H x D)	50.2 x 48.8 x 35.5 mm

Stock no.	Product no.
5WG1510-2AB23	RS 510/23



**Desigo room automation (BACnet)
Room control box with KNX PL-Link**

3

RL 512/23



Switching actuator 1 x AC 230 V, 16 AX, C load

- One relay contact as switching element
- Bus-powered electronics
- Integrated bus coupling unit, Bus connection via bus terminal block
- Type of protection: IP 20
- Rated contact voltage AC 230 V
- Rated contact frequency: 50/60 Hz
- Rated contact current 16 AX / 20 A
- Screw-less terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5...2.5 mm²
- For mounting in AP 118 automation module box or AP 641 room control box

The AP 641 room control box and AP 118 automation module box must be ordered separately.
See chapter Modular Installation System - Room control box - Module boxes.

Data sheet	A6V10416159
Rated voltage	AC 230 V
Rated current	16 A
Number of channels	1
Dimensions (W x H x D)	86.5 x 47.8 x 36.2 mm

Stock no.	Product no.
5WG1512-4AB23	RL 512/23

RL 526D23



Switch/dim actuator, 2 x AC 230 V, 6 A, 1...10 V

- One relay contact per output as switching element
- Rated contact operating voltage AC 230 V
- Rated contact frequency: 50/60 Hz
- Rated contact current: 6 A
- Control voltage output DC 1-10 V (passive) per channel for controlling dimmable electronic ballasts
- Maintenance-free terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- Bus-powered electronics
- Housing: plastic
- Dimensions (L x W x H): 86,5 x 47,8 x 36,2 mm
- As built-in device for mounting in a separately to be ordered Control Module Box AP 118 or Room Control Box AP 641
- Type of protection: IP 20

Data sheet	A6V12021343
Rated current	6 A
Number of channels	2
Dimensions (W x H x D)	86.5 x 47.8 x 36.2 mm

Stock no.	Product no.
5WG1526-4DB23	RL 526D23

Universal dimmer 1 x AC 230 V, 10...250 VA, (R,L,C load)

RS 525/23

- Output for switching and dimming resistive, inductive or capacitive loads
- Automatic adjustment to leading edge or trailing edge control, depending on the type of load
- Rated frequency 50...60 Hz
- Electronic protection of the output against overload, short circuit and temperature rise
- Bus-powered electronics
- Integrated bus coupling unit, Bus connection via bus terminal block
- Type of protection: IP 20
- Rated operational voltage AC 230 V
- Rated power at +35°C ambient temperature: 10...250 VA
- Screw-less terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- With bus connection module
- Modular installation device for mounting in AP 118 automation module box or AP 641 room control box



The AP 641 room control box and AP 118 automation module box must be ordered separately.
 See chapter Modular Installation System - Room control box - Module boxes.

Data sheet	A6V10416181
Rated voltage	AC 230 V
Rated current	1 A
Number of channels	1
Dimensions (W x H x D)	50.2 x 48.8 x 35.5 mm

Stock no.	Product no.
5WG1525-2AB23	RS 525/23

Universal dimmer 1 x AC 230 V, 10 ... 250 VA

UP 525/..3

- One output for switching and dimming resistive, inductive or capacitive loads
- Automatic adjustment to leading edge or trailing edge control, depending on the type of load
- Rated operational voltage AC 230 V
- Rated frequency 50...60 Hz
- Rated power at +35°C ambient temperature: 10...250 VA
- Electronic protection of the output against overload, short circuit and temperature rise
- Screwless terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5...2.5 mm²
- Bus-powered electronics
- Integrated bus coupling units, bus connection via bus terminal
- For insertion in flush-mounting switch and socket boxes 60 mm in diameter and 60 mm deep



Range overview UP 525/..3

Product Title	Dimensions (WxHxD) [mm]	Stock no.	Product no.
Universal dimmer 1 x AC 230 V, 10 ... 250 VA, with mounting frame and BTI interface	71 x 71 x 42	5WG1525-2AB03	UP 525/03
Universal dimmer 1 x AC 230 V, 10...250 VA	50 x 50.9 x 41.3	5WG1525-2AB13	UP 525/13



**Desigo room automation (BACnet)
Room control box with KNX PL-Link**

RL 521/23



Shutter Blind Actuator, 2 x AC 230 V, 6 A

- 2 channels
- Electrically interlocked relays to reverse the direction of rotation
- Integrated electronics for detection of the actuation of an electromechanical limit switch and with auto-calibration of the travel time from one limit switch to the other
- Bus-powered electronics
- Integrated bus coupling units, bus connection via bus terminal
- Type of protection: IP 20
- For the separate control per actuator channel of a sun protection, damper, door or window drive with a motor for AC 230 V and electromechanical limit switches
- Screw-less terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- For mounting in AP 118 automation module box or AP 641 room control box

The AP 641 room control box and AP 118 automation module box must be ordered separately. See chapter Modular Installation System - Room control box - Module boxes.

Data sheet	A6V10416169
Rated voltage	AC 230 V
Rated current	6 A
Number of channels	2
Dimensions (W x H x D)	47.8 x 86.5 x 36.2 mm

Stock no.	Product no.
5WG1521-4AB23	RL 521/23

RS 520/23



Shutter Blind Actuator RS, 1 x AC 230 V, 6 A

- 1 channel
- Electrically interlocked relays to reverse the direction of rotation
- Integrated electronics for detection of the actuation of an electromechanical limit switch and with auto-calibration of the travel time from one limit switch to the other
- Bus-powered electronics
- Integrated bus coupling unit, Bus connection via bus terminal block
- Type of protection: IP 20
- For the separate control per actuator channel of a sun protection, damper, door or window drive with a motor for AC 230 V and electromechanical limit switches
- Screw-less terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- With bus connection module
- Modular installation device for mounting in AP 118 automation module box or AP 641 room control box

The AP 641 room control box and AP 118 automation module box must be ordered separately. See chapter Modular Installation System - Room control box - Module boxes.

Data sheet	A6V10416164
Rated voltage	AC 230 V
Rated current	6 A
Number of channels	1
Dimensions (W x H x D)	50.2 x 48.8 x 35.5 mm

Stock no.	Product no.
5WG1520-2AB23	RS 520/23

Shutter Blind Actuator, 1 x AC 230 V, 6 A

UP 520/..3

- Electrically interlocked relays (drive protection)
- End position detection
- Screwless terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5...2.5mm²
- Bus-powered electronics
- Integrated bus coupling units, bus connection via bus terminal
- For insertion in flush-mounting switch and socket boxes 60 mm in diameter and 60 mm deep



Range overview UP 520/..3

Product Title	Dimensions (WxHxD) [mm]	Stock no.	Product no.
Shutter Blind Actuator, 1 x AC 230 V, 6 A, with mounting frame and BTI interface	71 x 71 x 42	5WG1520-2AB03	UP 520/03
Shutter Blind Actuator UP, 1 x AC 230 V, 6 A	50 x 50.9 x 41.3	5WG1520-2AB13	UP 520/13

Accessories for room control box with KNX PL-Link

Control Module Box

AP 118/01

- 1 slot for a sensor/actuator module, type RS or RL
- Separate connection compartment and strain relief for bus cable and functional lines
- Modular installation device with screw fixing for installation in linking ducts, under raised floors or for surface mounting on the ceiling
- Enclosure: Plastic
- Degree of protection: IP20



Data sheet A6V11438329
 Dimensions (W x H x D) 180 x 50 x 41.1 mm

Stock no.	Product no.
5WG1118-4AB01	AP 118/01

Room Control Box

AP 641/01

- 8 slots for a sensor/actuator module, type RS or RL
- Internal bus cable for connection of the sensor/actuator module to the bus
- Separate connection compartment and strain relief for functional lines
- Two PE/N bars for accommodation of the PE and neutral conductor of the functional lines
- Bus connection via bus terminal
- Modular installation device with screw fixing for installation under raised floors, on the wall or ceiling or in wet rooms
- Enclosure: Plastic
- Degree of protection: IP54



Data sheet A6V10416220
 Dimensions (W x H x D) 300 x 300 x 50 mm

Stock no.	Product no.
5WG1641-3AB01	AP 641/01



Room automation

Desigo room automation (BACnet) Room control box with KNX PL-Link

RL 125/23



Decentralized power supply, 80 mA, AC 230 V

- Integrated choke
- Output voltage DC 29 V
- Output current 80 mA
- Connection of choke-protected output voltage via a plug-in extra-low voltage terminal or bus terminal
- Type of protection: IP 20 (installed)
- Rated operational voltage AC 120...230 V, 50...60 Hz, DC 220 V
- For mounting in AP 118 automation module box or AP 641 room control box

The AP 641 room control box and AP 118 automation module box must be ordered separately.
See Chapter Modular Installation System - Room control box - Module boxes.

Data sheet

A6V11535388

Dimensions (W x H x D)

86.5 x 47.8 x 36.2 mm

Stock no.

Product no.

5WG1125-4AB23

RL 125/23

Switching actuator

N 53x/..

- One relay contact per output as switching element
- Rated contact operating voltage AC 230 V
- Rated contact frequency: 50/60 Hz
- Per output with mechanical display of the switching status via slide switches, which can also be used for direct manual operation of the switching output
- Maintenance-free terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- One phase terminal per output
- Bus-powered electronics
- Integrated bus coupling unit, bus connection via bus terminal block
- Red LED for display of the activation of the addressing mode as well as the operational readiness
- Housing: plastic, color RAL 7035 (light grey), N-system
- DIN rail mounted device for mounting on rail TH35 according to DIN EN 60715
- Type of protection: IP 20

Switching actuator 4 x AC 230 V, 6 AX, C-Load

N 530D31

Rated contact current according to DIN EN 60669: 6 AX (70 µF fluorescent lamp load), 10 A (resistive load)



Data sheet A6V11252211
 Dimensions (W x H x D) 72 x 90 x 61 mm
 Dimension width (1 MW = 18 mm) 4 MW

Stock no. Product no.
 5WG1530-1DB31 N 530D31

Switching actuator 8 x AC 230 V, 6 AX, C-Load

N 530D51

Rated contact current according to DIN EN 60669: 6 AX (70 µF fluorescent lamp load), 10 A (resistive load)



Data sheet A6V11252211
 Dimensions (W x H x D) 144 x 90 x 61 mm
 Dimension width (1 MW = 18 mm) 8 MW

Stock no. Product no.
 5WG1530-1DB51 N 530D51

Switching actuator 12 x AC 230 V, 6 AX, C-Load

N 530D61

Rated contact current according to DIN EN 60669: 6 AX (70 µF fluorescent lamp load), 10 A (resistive load)



Data sheet A6V11252211
 Dimensions (W x H x D) 216 x 90 x 61 mm
 Dimension width (1 MW = 18 mm) 12 MW

Stock no. Product no.
 5WG1530-1DB61 N 530D61

Room automation

Desigo room automation (BACnet)

DIN rail mounted actuators with KNX PL-Link

N 532D31

Switching actuator 4 x AC 230 V, 10 AX, C-Load



Rated contact current according to DIN EN 60669: 10 AX (140 µF fluorescent lamp load), 10 A (resistive load)

Data sheet	A6V11252211
Dimensions (W x H x D)	72 x 90 x 61 mm
Dimension width (1 MW = 18 mm)	4 MW

Stock no. Product no.

5WG1532-1DB31 N 532D31

N 532D51

Switching actuator 8 x AC 230 V, 10 AX, C-Load



Rated contact current according to DIN EN 60669: 10 AX (140 µF fluorescent lamp load), 10 A (resistive load)

Data sheet	A6V11252211
Dimensions (W x H x D)	144 x 90 x 61 mm
Dimension width (1 MW = 18 mm)	8 MW

Stock no. Product no.

5WG1532-1DB51 N 532D51

N 532D61

Switching actuator 12 x AC 230 V, 10 AX, C-Load



Rated contact current according to DIN EN 60669: 10 AX (140 µF fluorescent lamp load), 10 A (resistive load)

Data sheet	A6V11252211
Dimensions (W x H x D)	216 x 90 x 61 mm
Dimension width (1 MW = 18 mm)	12 MW

Stock no. Product no.

5WG1532-1DB61 N 532D61

N 534D31

Switching actuator 4 x AC 230 V, 16/20 AX, C-Load



Rated contact current according to DIN EN 60669: 16 AX / 20 AX (200 µF fluorescent lamp load)

Data sheet	A6V11252211
Dimensions (W x H x D)	72 x 90 x 61 mm
Dimension width (1 MW = 18 mm)	4 MW

Stock no. Product no.

5WG1534-1DB31 N 534D31

Switching actuator 8 x AC 230 V, 16/20 AX, C-Load

N 534D51

Rated contact current according to DIN EN 60669: 16 AX / 20 AX (200 µF fluorescent lamp load)

Data sheet A6V11252211
 Dimensions (W x H x D) 144 x 90 x 61 mm
 Dimension width (1 MW = 18 mm) 8 MW



Stock no.	Product no.
5WG1534-1DB51	N 534D51

Switching actuator 12 x AC 230 V, 16/20 AX, C-Load

N 534D61

Rated contact current according to DIN EN 60669: 16 AX / 20 AX (200 µF fluorescent lamp load)

Data sheet A6V11252211
 Dimensions (W x H x D) 216 x 90 x 61 mm
 Dimension width (1 MW = 18 mm) 12 MW



Stock no.	Product no.
5WG1534-1DB61	N 534D61

Universal dimmer 2 x 300 VA, AC 230 V

N 528D01

- Two outputs for switching and dimming resistive, inductive or capacitive loads
- Automatic adjustment to leading edge or trailing edge control, depending on the type of load
- Rated operational voltage AC 230 V
- Rated frequency 50 / 60 Hz
- Rated power at +35°C ambient temperature: 300 VA per output or 500 VA for single output usage, without any minimal load per output
- Electronic protection of each output against overload, short circuit and temperature rise
- Screw terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- Bicolor LED for indicating the switch status (red = on, green = off) or an error (orange, blinking) per output
- Bus-powered electronics
- Integrated bus coupling unit, bus connection via bus terminal block
- Device for DIN-rail mounting on a TH35 mounting rail according to DIN EN 60715

Data sheet A6V10892651
 Dimensions (W x H x D) 90 x 72 x 55 mm
 Dimension width (1 MW = 18 mm) 4 MW



Stock no.	Product no.
5WG1528-1DB01	N 528D01



**Desigo room automation (BACnet)
DIN rail mounted actuators with KNX PL-Link**

3

N 525D11



Switch/dim actuator, 2x DALI Broadcast

- 2 DALI outputs with DALI-2 certification
- Control capacity for up to 20 DALI-ECGs per DALI output
- DALI output voltage of 19 V, short circuit resistant
- Integrated power supply with input voltage AC 110-240 V, 50-60 Hz or DC 120-240 V for powering the gateway electronics and DALI output
- LED display for displaying operation mode and the following failure messages: Illuminant defective, DALI incorrect voltage, DALI short circuit, no ECG found
- One pair of push buttons for switching On/Off and dimming of all connected DALI ECG
- Button on the device front for deactivation of the direct mode operation and LED to indicate activation direct mode operation
- Building site function that provides ex-factory enables switching the building site lighting on and off via bus wall switches and actuators, even if these devices have not yet been commissioned with the Engineering Tool Software (ETS)
- Housing: plastic, N-system
- DIN rail mounted device for mounting on rail TH35 according to DIN EN 60715
- Type of protection: IP 20
- Max. width 4 TE (1 TE = 18 mm)

Data sheet	A6V11914230
Number of channels	2
Dimensions (W x H x D)	72 x 90 x 61 mm
Dimension width (1 MW = 18 mm)	4 MW

Stock no.	Product no.
5WG1525-1DB11	N 525D11

N 554D31



Universal dimmer 4 x 300 VA / 1 x 1000 VA, AC 230 V

- Four outputs for switching and dimming of resistive, inductive and capacitive loads
- Automatic adjustment to leading edge or trailing edge control, depending on the type of load
- Rated operational voltage AC 230 V
- Rated frequency 50 and 60 Hz
- Rated power at +45°C ambient temperature: up to 300 VA per output, up to 1000 VA with bundling of adjacent outputs, without minimum load per output
- Electronic protection per output against overload, short circuit and temperature rise
- Maintenance-free terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5...2.5 mm²
- Manual operation buttons on the device for switching, dimming and activation of direct mode operation
- Bus-powered electronics
- DIN-rail mounted device for mounting on rail TH35 according to DIN EN 60715

Data sheet	A6V11418996
Rated voltage	AC 230 V
Rated current	1.3 A
Number of channels	4
Dimensions (W x H x D)	144 x 90 x 61 mm
Dimension width (1 MW = 18 mm)	8 MW

Stock no.	Product no.
5WG1554-1DB31	N 554D31

Solar protection actuator

N 543D..1

- For control of drives with a motor for AC 230 V
- Electrically interlocked relays to reverse the direction of rotation
- Rated contact operating voltage AC 230 V
- Rated contact frequency: 50/60 Hz
- Rated contact current: 6 A
- Electronics for detection of the actuation of an electromechanical and electronic limit switches
- Automatic travel time determination via current measurement
- Per actuator channel direct operation function on the device for driving solar protection up/down, stop command and slat adjustment
- Two status LEDs per actuator channel to indicate the direction of travel and an override
- Button on the device front for deactivation of the direct mode operation and LED to indicate activation direct mode operation
- Maintenance-free terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- Two terminals per actuator channel for motor connection (up, down)
- At least one phase connection terminal for two actuator channel each
- Bus-powered electronics
- Housing: plastic, color RAL 7035 (light grey), N-system
- DIN rail mounted device for mounting on rail TH35 according to DIN EN 60715
- Type of protection: IP 20

Rated current 6 A

Solar protection actuator, 4 x AC 230 V, 6 A, with end position detection

N 543D31

- DIN rail mounted device for mounting on rail TH35 according to DIN EN 60715

Data sheet A6V11986596
 Dimensions (W x H x D) 72 x 90 x 61 mm
 Dimension width (1 MW = 18 mm) 4 MW



Stock no.	Product no.
5WG1543-1DB31	N 543D31

Solar protection actuator, 8 x AC 230 V, 6 A, with end position detection

N 543D51

- DIN rail mounted device for mounting on rail TH35 according to DIN EN 60715

Data sheet A6V11986596
 Dimensions (W x H x D) 144 x 90 x 61 mm
 Dimension width (1 MW = 18 mm) 8 MW



Stock no.	Product no.
5WG1543-1DB51	N 543D51

UP 258D..1

Presence Detector WIDE

- Passive infrared detector for ceiling installation
- Horizontal 360° motion detection area
- Presence/motion detection up to 64 m² / 400 m² (depending on mounting or room height)
- A 7-level setting to adjust the presence detection range
- Brightness and temperature measurement
- Integrated IR receiver and IR decoder for IR remote control with six pairs of buttons
- LED for display of detected motions in the delivery state for easy commissioning
- Programming button operable from the front
- Integrated bus coupler, bus connection via bus terminal, operation of electronics with bus voltage
- Mounting on the ceiling on a flush-mounting box with diameter of 60 mm, in a separately ordered housing for surface mounting or mounting plate for 4 x 4 boxes
- Color white (similar to RAL 9016)

UP 258D31



Presence Detector WIDE with temperature measurement

- Passive infrared detector for ceiling installation
- Horizontal 360° motion detection area
- Presence/motion detection up to 64 m² / 400 m² (depending on mounting or room height)
- A 7-level setting to adjust the presence detection range
- Brightness and temperature measurement
- Integrated IR receiver and IR decoder for IR remote control with six pairs of buttons
- LED for display of detected motions in the delivery state for easy commissioning
- Programming button operable from the front
- Integrated bus coupler, bus connection via bus terminal, operation of electronics with bus voltage
- Mounting on the ceiling on a flush-mounting box with diameter of 60 mm, in a separately ordered housing for surface mounting or mounting plate for 4 x 4 boxes
- Color white (similar to RAL 9016)

Data sheet

A6V11895382

Dimensions (W x H x D)

120 x 41 x 120 mm

Stock no.

Product no.

5WG1258-2DB31

UP 258D31

UP 258D41



Presence Detector WIDE pro with temperature and relative humidity measurement

- Passive infrared detector for ceiling installation
- Horizontal 360° motion detection area
- Presence/motion detection up to 64 m² / 400 m² (depending on mounting or room height)
- A 7-level setting to adjust the presence detection range
- Brightness and temperature measurement
- Integrated IR receiver and IR decoder for IR remote control with six pairs of buttons
- LED for display of detected motions in the delivery state for easy commissioning
- Programming button operable from the front
- Integrated bus coupler, bus connection via bus terminal, operation of electronics with bus voltage
- Mounting on the ceiling on a flush-mounting box with diameter of 60 mm, in a separately ordered housing for surface mounting or mounting plate for 4 x 4 boxes
- Color white (similar to RAL 9016)

Data sheet

A6V11895382

Dimensions (W x H x D)

120 x 41 x 120 mm

Stock no.

Product no.

5WG1258-2DB41

UP 258D41

Presence Detector WIDE multi with temperature, humidity and CO2 measurement

UP 258D51



- Passive infrared detector for ceiling installation
- Horizontal 360° motion detection area
- Presence/motion detection up to 64 m² / 400 m² (depending on mounting or room height)
- A 7-level setting to adjust the presence detection range
- Brightness and temperature measurement
- Integrated IR receiver and IR decoder for IR remote control with six pairs of buttons
- LED for display of detected motions in the delivery state for easy commissioning
- Programming button operable from the front
- Integrated bus coupler, bus connection via bus terminal, operation of electronics with bus voltage
- Mounting on the ceiling on a flush-mounting box with diameter of 60 mm, in a separately ordered housing for surface mounting or mounting plate for 4 x 4 boxes
- Color white (similar to RAL 9016)

Data sheet A6V11895382
 Dimensions (W x H x D) 120 x 41 x 120 mm

Stock no.	Product no.
5WG1258-2DB51	UP 258D51

Presence Detector WIDE DualTech with temperature measurement

UP 258D61



- Ultrasound for reliable detection for ceiling installation indoors even behind objects
- Additional detection options through PIR technology
- Horizontal 360° motion detection area
- Presence/motion detection up to 28 m² / 79 m² (depending on mounting or room height)
- Brightness and temperature measurement
- Integrated IR receiver and IR decoder for IR remote control with six pairs of buttons
- LED for display of detected motions in the delivery state for easy commissioning
- Programming button operable from the front
- Integrated bus coupler, bus connection via bus terminal, operation of electronics with bus voltage
- Mounting on the ceiling on a flush-mounting box with diameter of 60 mm, in a separately ordered housing for surface mounting or mounting plate for 4 x 4 boxes
- Color white (similar to RAL 9016)

Data sheet A6V11895378
 Dimensions (W x H x D) 120 x 41 x 120 mm

Stock no.	Product no.
5WG1258-2DB61	UP 258D61

UP 258D12



Presence Detector with brightness sensor

- Passive infrared detector for ceiling mounting indoors
- Adjustable sensitivity of detection
- Mixed light measurement
- Ceiling mounting on a flush-mounting box with 60 mm diameter and min. 40 mm depth or in a housing for surface-mounting AP 258E01 (to be ordered separately)
- Integrated IR decoder for S 255/11
- Programming button reachable from front
- Monitoring range horizontal 360°, vertical approx. 105°
- Monitoring motion of an area of diameter 8 m (depending on mounting/room height)
- Optional blinding of parts of the detection area
- Power supply via KNX bus
- Integrated bus coupling unit, bus connection via bus terminal

Data sheet A6V10489482
 Dimensions (W x H x D) 88 x 63 x 88 mm

Stock no. Product no.
 5WG1258-2DB12 **UP 258D12**

UP 255D21



Brightness Sensor with constant light level controller

- Mixed light measurement
- Ceiling mounting on a flush-mounting box with 60 mm diameter and min. 40 mm depth or in a housing for surface-mounting (to be ordered separately)
- Programming button reachable from front
- Integrated IR decoder for S 255/11

Data sheet A6V10489482
 Dimensions (W x H x D) 88 x 63 x 88 mm

Stock no. Product no.
 5WG1255-2DB21 **UP 255D21**

AP 258E01



Surface Mounting Enclosure

- For fixing the presence detectors UP 258D12 and UP 258E22 and the brightness sensor UP 255D21 as a surface mounting device

Data sheet A6V10416111

Stock no. Product no.
 5WG1258-7EB01 **AP 258E01**

AP 258E11



Surface Mounting Box Type B

- Mounting presence detector UP 258Dx1 as a surface-mounted device
- Color white (similar to RAL 9016)

Dimensions (W x H x D) 109 x 109 x 30 mm

Stock no. Product no.
 5WG1258-7EB11 **AP 258E11**

IR remote control

- 6 pushbutton pairs for the remote control of lighting, shutter/blinds and scenes
- Parameterization via ETS in the presence detectors UP 258E and UP 258D and in the brightness sensor UP 255D21
- Range: up to 10 m
- Power supply: CR2025 lithium button cell
- Degree of protection (acc. to EN 60529): IP40

Data sheet A6V11786011
 Dimensions (W x H x D) 40 x 87 x 6 mm

S 255/11



Stock no. Product no.

5WG1255-7AB11 S 255/11

Mounting plate

- Mounting presence detector UP 258Dx1 with 4x4 boxes
- Color white (similar to RAL 9016)

S 258/12



Stock no. Product no.

5WG1258-8AB12 S 258/12

**Desigo room automation (BACnet)
VAV compact controller with KNX PL-Link**

G..B181.1E/KN

VAV compact controller KNX



- Compact controller with KNX communication for plants with variable or constant air volume flow
- Integrated, highly precise differential pressure sensor, damper actuator and digitally configurable air volume controller
- Nominal torque 5 or 10 Nm
- Air damper rotation angle mechanically adjustable between 0 and 90°
- Configurable as single device per room or for cascade control with pressure ratio 1:1, positive pressure, or negative pressure
- Prewired with a 0.9 m cable and a 0.9 m cable

Data sheet	N3547
Positioning time	150 s
Communication	KNX S-Mode KNX LTE-Mode KNX PL-Link
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 158 x 61 mm
Warranty	5 Years

Range overview G..B181.1E/KN

Torque [Nm]	Operating voltage [V]	Air damper area [m ²]	Power consumption	Stock no.	Product no.
5	AC 24	0.8	3 VA 2.5 W	S55499-D134	GDB181.1E/KN
5	AC 24	0.8	3 VA 2.5 W	S55499-D505	GDB181.1EMKN
	AC 24		3 VA 2.5 W	S55499-D263	GLB181.1EMKN
10	AC 24	1.5	3 VA 2.5 W	S55499-D135	GLB181.1E/KN

GDB181.EMKN packaging unit 18 pieces.
Basic Documentation No.: P3547

Electromotoric rotary actuator KNX for control ball valves up to DN25

GDB111.9E/KN

- Electromotoric rotary actuator
- for KNX S-Mode or KNX PL-Link communication
 - for 2-/3-port control ball valves up to DN25
 - for 6-port control ball valves up to DN25
 - without spring-return
 - pre-wired with two 0.9 m connection cables



Data sheet	A6V10725318
Torque	5 Nm
Angular rotation	90°
Power consumption	3 VA 2.5 W
Positioning time	150 s
Cable length	0.9 m
Communication	KNX S-Mode or KNX PL-Link
Positioning signal	KNX S-Mode or KNX PL-Link
Spring return function	No
Degree of protection	IP54
Medium temperature	5...90°C
Ambient humidity, operation	95 % r.h.
Dimensions (W x H x D)	88 x 112 x 143 mm
Mounting position	Horizontal or vertical
Operating voltage	AC 24 V
Position feedback	KNX S-Mode or KNX PL-Link
Auxiliary switch	0
Warranty	5 Years

Stock no.	Product no.
S55499-D203	GDB111.9E/KN

Electromotoric rotary actuator KNX for control ball valves up to DN50

GLB111.9E/KN

- Electromotoric rotary actuator
- for KNX S-Mode or KNX PL-Link communication
 - for 2-/3-port control ball valves up to DN50
 - without spring-return
 - pre-wired with two connection cables



Data sheet	A6V10725318
Torque	10 Nm
Angular rotation	90°
Power consumption	3 VA 2.5 W
Positioning time	150 s
Cable length	0.9 m
Communication	KNX S-Mode or KNX PL-Link
Positioning signal	KNX S-Mode or KNX PL-Link
Spring return function	No
Degree of protection	IP54
Dimensions (W x H x D)	88 x 112 x 143 mm
Mounting position	Upright to horizontal
Operating voltage	AC 24 V
Position feedback	KNX S-Mode or KNX PL-Link
Auxiliary switch	0
Warranty	5 Years

Stock no.	Product no.
S55499-D207	GLB111.9E/KN

Room automation

Desigo room automation (BACnet)

Accessories for KNX PL-Link

RL 125/23



Decentralized power supply, 80 mA, AC 230 V

- Integrated choke
- Output voltage DC 29 V
- Output current 80 mA
- Connection of choke-protected output voltage via a plug-in extra-low voltage terminal or bus terminal
- Type of protection: IP 20 (installed)
- Rated operational voltage AC 120...230 V, 50...60 Hz, DC 220 V
- For mounting in AP 118 automation module box or AP 641 room control box

The AP 641 room control box and AP 118 automation module box must be ordered separately.
See Chapter Modular Installation System - Room control box - Module boxes.

Data sheet

A6V11535388

Dimensions (W x H x D)

86.5 x 47.8 x 36.2 mm

Stock no.

Product no.

5WG1125-4AB23

RL 125/23

Power supply unit

- Integrated chokes
- Bus connection via bus terminal
- Parallel operating mode power supplies
- Rated operational voltage AC 120...230 V, 50...60 Hz, DC 220 V
- Output voltage DC 29 V
- Additional unchoked output for DC 29 V, for powering a second bus line via an external choke N 120/2
- Modular installation devices for mounting on TH35 EN 60715 mounting rail

N 125/..2



Data sheet A6V10416488

Range overview N 125/..2

Product Title	Dimensions (WxHxD) [mm]	Dimension width (1 MW = 18 mm)	Stock no.	Product no.
Power supply unit DC 29 V, 160 mA with additional unchoked output, N 125/02	90 x 72 x 55	4 MW	5WG1125-1AB02	N 125/02
Power supply unit DC 29 V, 320 mA with additional unchoked output, N 125/12	60 x 72 x 90	4 MW	5WG1125-1AB12	N 125/12
Power supply unit DC 29 V, 640 mA with additional unchoked output, N 125/22	60 x 72 x 90	4 MW	5WG1125-1AB22	N 125/22

USB - KNX Service interface

The service interface consists of:

- OCI702 service interface
- USB 2.0 cable (Type A / B)
- KNX service cable for Synco™ controllers (RJ45 / RJ45)
- KNX service cable for Desigo™ TRA (RJ45 / jack plug 2.5 mm)
- KNX service cable (RJ45 / KNX bus terminal)

OCI702



With the respective PC software, the interfaces allows to commission and service devices with KNX communication, e.g. from the following ranges:

- Synco™ 700 controllers and room devices
- KNX room thermostats RDF..., RDG..
- Individual room controllers RXB..
- Synco™ living central apartment units QAX9...
- Desigo TRA
- GAMMA devices

Data sheet A6V10438951
 Degree of protection IP20

Stock no.	Product no.
S55800-Y101	OCI702



**Room pressurization and fume hood control (BACnet)
Compact room automation station BACnet/IP DXR2.E..**

DXR2.E17C-103A

Compact Room Automation Station (30DP)



Compact room automation stations for HVAC, lighting, and shading:

- BTL Listed and a BACnet Advanced Application Controller (B-AAC) device
- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool
- Dedicated SCOM communication for fast and high resolution sensor input

Applications: Pressurized room, fume hood control, variable and constant volume flow, chilled beam, radiant ceiling, radiator, 4 lights & 2 shades

Data sheet	N9205
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode SCOM
Universal inputs, number	4 UI, 2 resistive
Digital inputs, number	3
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	4
Triac output, switching voltage	24 V
Triac output, switching current	0.5 A
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 105 x 60 mm

Stock no.	Product no.
S55376-C134	DXR2.E17C-103A

Room automation
Room pressurization and fume hood control (BACnet)
Compact room automation station BACnet/IP DXR2.E..

Compact Room Automation Station (60DP)

DXR2.E17CX-103A

Compact room automation stations for HVAC, lighting, and shading:

- BTL Listed and a BACnet Advanced Application Controller (B-AAC) device
- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool
- Dedicated SCOM communication for fast and high resolution sensor input



Applications: Variable air volume, Fan-powered box, Radiant ceiling, Radiator, 4 Lights & 2 Shades

Data sheet	N9205
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode SCOM
Universal inputs, number	4 UI, 2 resistive
Digital inputs, number	3
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	4
Triac output, switching voltage	24 V
Triac output, switching current	0.5 A
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 105 x 60 mm

Stock no.	Product no.
S55376-C150	DXR2.E17CX-103A

Accessories room pressurization

Product Title	Data sheet	Stock no.	Product no.
Rotary air damper actuator, AC/DC 24 V, DC0(2)...10 V / 0(4)...20 mA, 6 Nm, 2 s	N4608	BPZ:GAP191.1E	GAP191.1E
Rotary air damper actuators 6 Nm, without electronic fail-save function	A6V11991159	S55499-D639	GAP191.1E/IHT
Rotary air damper actuator, AC/DC 24 V, DC0(2)...10 V / 0(4)...20 mA, 6 Nm, 2 s, with electronic fail-save function	N4609	BPZ:GNP191.1E	GNP191.1E
Air duct differential pressure sensor, 0...100 Pa	N1916	S55720-S234	QBM3020-1
Air duct differential pressure sensor, 0...300 Pa for VAV	N1925	S55720-S118	QBM3460-3
Duct sensor for air velocity	N1932	BPZ:QVM62.1	QVM62.1
Communicative Air Flow Pressure Sensor (250 Pa / 1"WC)		S55376-C139	DXA.S04P1
Air duct differential pressure sensor, -50...50 Pa	N1916	S55720-S233	QBM3020-1U
Communicative Air Flow Pressure Sensor IP54 (250 Pa / 1"WC)		S55376-C140	DXA.S04P1-B
Air duct differential pressure sensor, 0...300 Pa	N1916	S55720-S235	QBM3020-3
Room Condition Monitor		S55624-H130	RPM.00-SD
Room Condition Monitor with Pressure Sensor (+-12 Pa / +-0.05"WC)		S55624-H131	RPM.12-SD
Room Condition Monitor with Pressure Sensor (+-25 Pa / +-0.1"WC)		S55624-H132	RPM.25-SD
Room Condition Monitor with Pressure Sensor (+-62 Pa / +-0.25"WC)		S55624-H133	RPM.62-SD
Room Condition Monitor with Pressure Sensor (+-125 Pa / +-0.5"WC)		S55624-H134	RPM.125-SD
Room Condition Monitor with Pressure Sensor (+-250 Pa / +-1.0"WC)		S55624-H135	RPM.250-SD

Accessories fume hood control

Product Title	Data sheet	Stock no.	Product no.
Control Module Box	A6V11438329	5WG1118-4AB01	AP 118/01
Rotary air damper actuator, AC/DC 24 V, DC0(2)...10 V / 0(4)...20 mA, 6 Nm, 2 s	N4608	BPZ:GAP191.1E	GAP191.1E
Fume Hood Operator Display (Thin and Flush Mount)	A6V10959882	S55624-H112	QMX3.P88-1WSC
Flow sensor		S55720-S397	QVE3001
Fume Hood Operator Display (Wide)		S55624-H111	QMX3.P87-1WSC
Communicative Air Flow Pressure Sensor (250 Pa / 1"WC)		S55376-C139	DXA.S04P1
Communicative Air Flow Pressure Sensor IP54 (250 Pa / 1"WC)		S55376-C140	DXA.S04P1-B
Cable Sash Sensor, 1270 mm	A6V11178716	S55376-C158	DXA.B130
Cable Sash Sensor, 2032 mm	A6V11178716	S55376-C159	DXA.B200
Switching actuator 1 x AC 230 V, 16 AX, C load	A6V10416159	5WG1512-4AB23	RL 512/23

Room controller with KNX communication

RXB2..



The controllers are used for temperature control in individual rooms.

- For 2-pipe with changeover or 4-pipe fan coil systems
- For radiator and chilled ceiling (RXB24.1 only)
- Control of thermal valve actuators AC 24 V, PWM, valve actuators AC 24 V (3-position) as well as KNX bus actuators
- Potential-free relay contacts for fan speed control
- Connecting relay for electric heating (RXB22.1 und RXB39.1)
- KNX bus communication
- Connection to Desigo building automation and control system via PXKNX
- Commissioning with "Handy Tool" QAX34.3 or Synco ACS

Application description fan coil: CM110672

Application description RAD/CLC: CM110671

Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	Max. 12 VA
Control Algorithm	PI
Communication	Bus: KNX (S-mode and LTE mode) Room unit: PPS2
Digital inputs, number	2
Relay output, switching voltage	AC 250 V
Relay output, switching current	5 (4) A
Triac outputs	PWM 3-position
Triac output, switching voltage	AC 24 V
Triac output, switching current	0.5 A
Interface type	KNX-bus
Mounting	DIN rail
Mounting location	Ceiling voids with cover Fan coil Panel
Degree of protection	IP30
Dimensions (W x H x D)	113 x 167 x 62 mm

Range overview RXB2..

Product Title	Triac outputs, number	Relay outputs, number	Data sheet	Stock no.	Product no.
Room controller for 3-speed fan	4	3	N3873	BPZ:RXB21.1/FC-10	RXB21.1/FC-10
Room controller for 3-speed fan	4	3	N3873	BPZ:RXB21.1/FC-11	RXB21.1/FC-11
Room controller with 3-speed fan and electric heating coil	2	4	N3873	BPZ:RXB22.1/FC-12	RXB22.1/FC-12
Room controller for chilled ceilings and radiators	4	0	N3874	BPZ:RXB24.1/CC-02	RXB24.1/CC-02

The application determines the usable actuator (PWM /3-position) with the triac output.

**Desigo room automation (KNX)
Communicating controllers RXB (KNX)**

RXB39.1/FC-13



Room controller for fan-coil applications with KNX communication

The RXB39.1 room controller is used for temperature control in individual rooms.

- For 2-pipe and 4-pipe fan coil systems with or without changeover
- PI control
- KNX bus communication
- Connection to Desigo building automation and control system via PXKNX
- DC 0...10 V control of valve and actuators, fan (ECM), and electric heater
- 2 Potential-free relay contacts to release fan and electric heating
- Commissioning with ETS Professional, "Handy Tool" QAX34.3 or Synco ACS
- Operating voltage AC 230 V
- Plug-in screw terminals

Data sheet	N3875
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	12 VA
Control Algorithm	PI
Communication	Bus: KNX Room unit: PPS2
Analog inputs, number	2
Analog outputs, number	3
Digital inputs, number	4
Relay outputs, number	1
Electric reheater relay	1
Relay outputs	Change-over contact
Relay output, switching voltage	250 V
Relay output, switching current	5 (4)A
Dimension width (1 MW = 18 mm)	9.5 MW
Mounting	DIN rail For screw fixing Ceiling voids with cover Fan coil Panel
Mounting location	
Degree of protection	IP20
Dimensions (W x H x D)	152 x 120 x 62 mm

Stock no.	Product no.
S55373-C121	RXB39.1/FC-13

Accessories for RXB..

Product Title	Data sheet	Stock no.	Product no.
Power supply unit DC 29 V, 160 mA with additional unchoked output, N 125/02	A6V10416069	5WG1125-1AB02	N 125/02
Power supply unit DC 29 V, 320 mA with additional unchoked output, N 125/12	A6V10416069	5WG1125-1AB12	N 125/12
Power supply unit DC 29 V, 640 mA with additional unchoked output, N 125/22	A6V10416069	5WG1125-1AB22	N 125/22
Terminal cover for RXB2..	N3834	BPZ:RXZ20.1	RXZ20.1
Power amplifier for thermal actuators AC 24 V, PWM	N3591	BPZ:UA1T	UA1T
Terminal cover for RXB3..	N3840	BPZ:RXZ30.1	RXZ30.1

Room unit for RXB..

Product Title	Data sheet	Stock no.	Product no.
Room unit with PPS2 interface		BPZ:QAX3..	QAX3..

Temperature sensors for RXB..

Product Title	Data sheet	Stock no.	Product no.
Front module with passiv temperature measurement, LG-Ni1000	N1408	S55720-S133	AQR2531ANW
Duct temperature sensor 400 mm, LG-Ni1000	N1761	BPZ:QAM2120.040	QAM2120.040
Room temperature sensor LG-Ni1000	N1721	BPZ:QAA24	QAA24
Room temperature sensor LG-Ni1000 for mounting on recessed conduit boxes	N1722	BPZ:QAA64	QAA64
Cable temperature sensor PVC 2 m, LG-Ni1000	N1831	BPZ:QAP22	QAP22

Valve actuators for RXB..

Product Title	Data sheet	Stock no.	Product no.
Electromotoric actuator, 200 N, 5.5 mm, AC 24 V, 1.5 m, 3P	N4891	BPZ:SSB81	SSB81
Electromotoric actuator, 160 N, 2.5 mm, 1.5 m, AC 24 V, 3P	N4864	BPZ:SSP81	SSP81

Damper actuators for RXB..

Product Title	Data sheet	Stock no.	Product no.
Rotary air damper actuators 5 Nm, without spring return	A6V10636149 / A6V10881141	BPZ:GDB..1E	GDB..1E
Linear air damper actuators 125 N, without spring return	N4664	BPZ:GDB..2E	GDB..2E
Rotary air damper actuators 10 Nm, without spring return	A6V10636202 / A6V10881141	BPZ:GLB..1E	GLB..1E
Linear air damper actuators 250 N, without spring return	N4664	BPZ:GLB..2E	GLB..2E
Mounting Bracket, BG	N4698	S55859-Z115	ASK71.04
Position Indicator, BG	N4698	S55859-Z116	ASK71.05
Mounting Bracket, BG, short	N4698	S55859-Z119	ASK71.08
Centering insert 2 x square 10 mm	N4698	S55859-Z123	ASK71.21
Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202	S55499-D443	GLB141.1H

Interface and tools RXB..

Product Title	Data sheet	Stock no.	Product no.
Room unit with sensor, setpoint and operating mode selector, display and PPS2 interface	N1640	BPZ:QAX34.3	QAX34.3

Connection to Designo

Product Title	Data sheet	Stock no.	Product no.
System controller BACnet/IP	N9222	BPZ:PXC00-E.D	PXC00-E.D

Connection to Synco 700

Product Title	Data sheet	Stock no.	Product no.
Central control unit for room controllers and room thermostats	N3122	S55370-C162	RMB795B-1

QAX3..

Room unit with PPS2 interface

Room units for acquiring the room temperature and operation of individual room control.

Voltage supply	PPS2
Power consumption	0.10 VA
Time constant	≤8 min
Measuring range, temperature	0...40 °C
Sensing element, temperature	NTC
Measurement accuracy	±0.25 K at 25 °C
	±0.5 K at 5...30 °C
Setpoint readjustment range	±12 K
Mounting location	Indoors
Degree of protection	IP30

QAX30.1

Room unit with sensor and PPS2 interface



- Acquisition of room temperature

Data sheet	N1741
Dimensions (W x H x D)	90 x 100 x 32 mm

Stock no.	Product no.
BPZ:QAX30.1	QAX30.1

QAX31.1

Room unit with sensor, setpoint adjuster and PPS2 interface



- Acquisition of room temperature
- Setpoint adjuster for room temperature

Data sheet	N1741
Dimensions (W x H x D)	90 x 100 x 36 mm

Stock no.	Product no.
BPZ:QAX31.1	QAX31.1

QAX32.1

Room unit with sensor, setpoint and operating mode selector and PPS2 interface



- Acquisition of room temperature
- Setpoint adjuster for room temperature
- Rocker switch for mode selection (Off / Auto)

Data sheet	N1641
Dimensions (W x H x D)	90 x 100 x 36 mm

Stock no.	Product no.
BPZ:QAX32.1	QAX32.1

Room unit with sensor, setpoint and operating mode selector, fan speed selection, and PPS2 interface

- Acquisition of room temperature
- Setpoint adjuster for room temperature
- Rocker switch for mode selection (Off/Auto) and for manual fan control with fan coil systems (up to 3 speeds)

Data sheet N1642
 Dimensions (W x H x D) 90 x 100 x 36 mm

QAX33.1



Stock no.	Product no.
BPZ:QAX33.1	QAX33.1

Room unit with sensor, setpoint and operating mode selector, display and PPS2 interface

- Acquisition of room temperature
- Rocker switch for adjustment of room temperature setpoint
- Rocker switch for mode selection (Off/Auto) and for manual fan control with fan coil systems (up to 3 speeds)
- LCD with display of room temperature and control mode
- Together with the RXB controllers for parameter setting

Data sheet N1640
 Dimensions (W x H x D) 96 x 119 x 24 mm

QAX34.3



Stock no.	Product no.
BPZ:QAX34.3	QAX34.3



RDG200KN



KNX communicating room thermostat. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal applications

- For applications with 2-position (on/off or PWM) or 3-position control outputs
- For applications with 3-speed or DC 0...10 V fan
- AC 230 V or AC 24 V power supply.

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling systems
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)

Data sheet	A6V11545853
Operating voltage	AC 24 V AC 230 V
Setpoint setting range	5...40 °C
Switching differential	Heating: 0.5...6 K Cooling: 0.5...6 K
Communication	Bus: KNX (S-mode and LTE with Synco)
Analog inputs, number	3
Analog outputs	Fan. 1 (DC 0...10 V)
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Digital inputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay outputs, number	3
Relay output, switching voltage	AC 24 V or 230 V
Relay output, switching current	5 (4)A
Triac outputs	Valve, el. heater 2-position, PWM, 3-position
Triac outputs, number	4
Triac output, switching voltage	AC 24...230 V
Triac output, switching current	1 A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	92 x 134 x 25 mm

Stock no.	Product no.
S55770-T409	RDG200KN

KNX communicating room thermostat. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan) or universal applications

RDG260KN



- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- AC or DC 24 V operating voltage

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling system
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)
- 4-pipe system with 6-port ball valves and PICV
- Heating / cooling with 6-port ball valves

Data sheet	A6V11545853
Operating voltage	AC 24 V
Setpoint setting range	5...40°C
Switching differential	Heating: 0,5...6 K Cooling: 0,5...6 K
Communication	Bus: KNX (S-mode and LTE with Synco)
Analog inputs, number	3
Analog outputs	Valve, el. heater: 4 Fan: 1 (DC 0...10 V)
Analog outputs, number	5
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Digital inputs, number	3
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay outputs, number	3
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	5 (4)A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	92 x 134 x 25 mm

Stock no.	Product no.
S55770-T412	RDG260KN

RDF800



Flush mount touch room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes

- Operating modes: Comfort, Economy and Protection
- For heating and/or cooling applications
- 2 or 3-position control outputs
- Output for 1-speed or 3-speed fan
- 2 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Automatic or manual heating/cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Color of housing: Ivory white (RAL 9001)
- Backlit display

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 4-pipe system

Data sheet	N3174
Operating voltage	AC/DC 230 V
Power consumption	6 VA
Setpoint setting range	5...40 °C
Switching differential	0.5...6 K
Analog inputs, number	2
Relay outputs	Fan: Normally open contact Valve: Normally open contact Non floating
Relay outputs, number	5
Relay output, switching voltage	230 V
Relay output, switching current	5 (2) A
Type of fixing	With screws on recessed round conduit box diameter min. 60 mm
Degree of protection	IP30
Dimensions (W x H x D)	86 x 86 x 47 mm

Stock no. Product no.

S55770-T396 **RDF800**

Flush mount touch KNX room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes

RDF800KN



- KNX communications
- Operating modes: Comfort, Economy and Protection
- For heating and/or cooling applications
- 2 or 3-position control outputs
- Output for 1-speed or 3-speed fan
- 2 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Automatic or manual heating/cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Color of housing: Ivory white (RAL 9001)
- Backlit display

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 4-pipe system

Data sheet	N3174
Operating voltage	AC 230 V
Power consumption	6 VA
Setpoint setting range	5...40 °C
Switching differential	0.5...6 K
Communication	Bus: KNX (S-mode and LTE mode with Synco 700)
Analog inputs, number	2
Relay outputs	Fan: Normally open contact Valve: Normally open contact Non floating
Relay outputs, number	5
Relay output, switching voltage	230 V
Relay output, switching current	5 (2) A
Type of fixing	With screws on recessed round conduit box diameter min. 60 mm
Degree of protection	IP30
Dimensions (W x H x D)	86 x 86 x 46.7 mm

Stock no.	Product no.
S55770-T350	RDF800KN

RDF870KN



Flush mount touch KNX PM2.5 & CO2 & Ventilation Controls with on/off or ECM fans selectable and 2x DC 0-10 V input, fit for both round and square conduit boxes

- AC 230 V operating voltage, large, backlit display
- Display and setpoint adjustment for PM2.5 and CO2 control
- Display of room temperature, outside temperature, VOC (volatile organic compound) and RH (relative humidity)
- Support 1-/3-/4-speed On/Off fan or DC fan output
- Two multifunctional inputs for external passive and DC 0...10 V sensors
- Operating modes: Comfort, Economy and Protection
- KNX S-Mode
- KNX commissioning via ETS or local control parameters
- KNX integration into Desigo via group (ETS) or individual addressing
- KNX integration into third-party system via group addressing (ETS)
- Mounting on recessed square 86 mm box or round 60 mm with 60 mm fixing centers and minimum 40 mm depth
- Color of housing: Ivory white (RAL 9001)

Application selectable:

- PM2.5 control only
- CO2 control only
- PM2.5 & CO2 controls (CO2 higher priority in control)
- Ventilation control

2x sensor inputs are selectable:

- 0: No function
- 1: Temperature (AI) (NTC 10k)
- 2: Temperature (AI) (0...10 V)
- 3: PM2.5 (AI) µg/m³ (0...10 V)
- 4: CO2 (AI) ppm (0...10 V)
- 5: VOC (AI) % (0...10 V)
- 6: VOC (AI) mg/m³ (0...10 V)
- 7: RH (AI) % (0...10 V)
- 8: Alarm input (DI)
- 9: Dummy AI (0...10 V) (RU only)

Data sheet	A6V11439454
Operating voltage	AC 230 V 230 V
Power consumption	7 VA 2.5 W
Communication	KNX S-Mode
Analog outputs	DC 0...10 V for ECM fan output
Relay outputs	Fan: N.O. contacts, non-floating Valve: N.O. contacts, non-floating
Degree of protection	IP30
Dimensions (W x H x D)	86 x 86 x 46.8 mm
Color	White

Stock no.	Product no.
S55770-T407	RDF870KN

Flush mount touch MODBUS PM2.5 & CO2 & Ventilation Controls with on/off or ECM fans selectable and 2x DC 0-10 V input, fit for both round and square conduit boxes

RDF870MB



- AC 230 V operating voltage, large, backlit display
- Display and setpoint adjustment for PM2.5 and CO2 control
- Display of room temperature, outside temperature, VOC (volatile organic compound) and RH (relative humidity)
- Support 1-/3-/4-speed On/Off fan or DC fan output
- Two multifunctional inputs for external passive and DC 0... 10 V sensors
- Operating modes: Comfort, Economy and Protection
- RS485 Modbus RTU slave mode
- Modbus commissioning via third-party tool, e.g. Modbus scan, Modbus poll, etc
- Mounting on recessed square 86 mm box or round 60 mm with 60 mm fixing centers and minimum 40 mm depth
- Color of housing: Ivory white (RAL 9001)

RDF870MB can be configured as a room unit via DIP switches.

It provides the following additional functions:

- Setpoint adjustment and display for room temperature, VOC, RH and display of outside temperature
- Four remote digital outputs via bus and controlled by a master controller

Application selectable:

- PM2.5 control only
- CO2 control only
- PM2.5 & CO2 controls (CO2 higher priority in control)
- Ventilation control

2x sensor inputs are selectable:

- 0: No function
- 1: Temperature (AI) (NTC 10k)
- 2: Temperature (AI) (0... 10 V)
- 3: PM2.5 (AI) $\mu\text{g}/\text{m}^3$ (0... 10 V)
- 4: CO2 (AI) ppm (0... 10 V)
- 5: VOC (AI) % (0... 10 V)
- 6: VOC (AI) mg/m^3 (0... 10 V)
- 7: RH (AI) % (0... 10 V)
- 8: Alarm input (DI)
- 9: Dummy AI (0... 10 V) (RU only)

Data sheet	A6V11439454
Operating voltage	AC 230 V
Power consumption	6 VA
	2.1 W
Communication	RS485 Modbus
Analog outputs	DC 0... 10 V for ECM fan output
Relay outputs	Fan: N.O. contacts, non-floating Valve: N.O. contacts, non-floating
Degree of protection	IP30
Dimensions (W x H x D)	86 x 86 x 47 mm
Color	White

Stock no.	Product no.
S55770-T408	RDF870MB

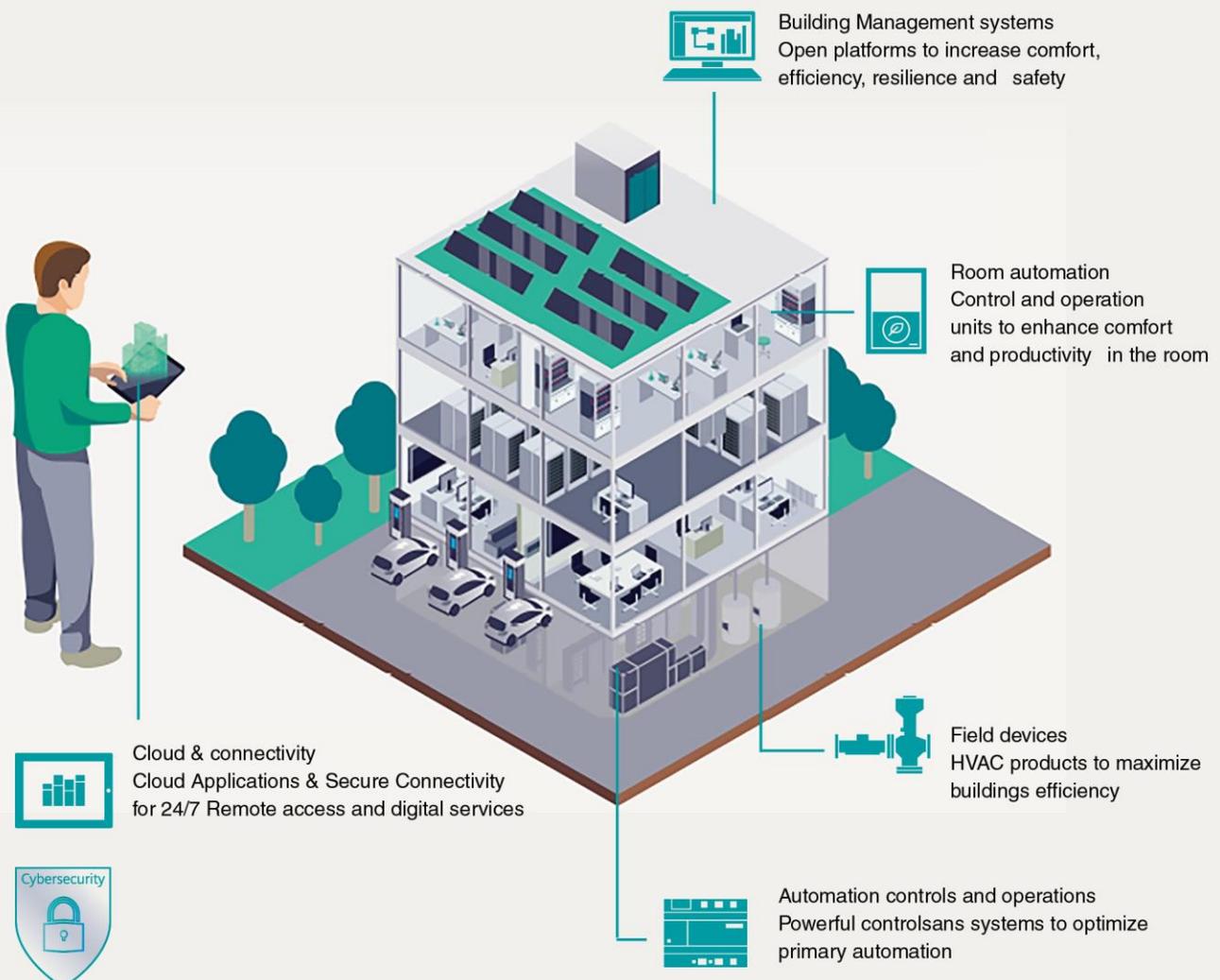
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