

COMTRAXX® CP9xx – Control Panel

Alarm indicator and operator panel for medical locations and other areas



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Control Panel

Device features

- Display size 7", 15" and 24" with tempered and anti-reflective glass
- Easy to clean and to desinfect, degree of protection IP54
- Screwless mounted front plate
- User-friendly touch-sensitive monitoring system for medical locations and other applications
- Particularly simple operation
- Additional information for medical and technical personnel
- Visual and acoustic notification in the event of an alarm
- Clear menu structure with self-explanatory interactive images
- Clearly marked safety functions
- Silent due to operation without fan
- High-quality representation with excellent contrast, high resolution and a wide viewing angle
- Possibility of graphical integration of building plans or status display in photo quality
- Easy integration of external subsections like charging stations for operating theatre table controls and intercom systems with front foil
- Simple conversion and expansion with minimal service interruptions

Approvals and certifications



Product description

At the interface between humans and machines, alarm indicator and operator panels play a key role. Their task consists in emitting a visual and acoustic alarm and converting information from the system into comprehensible operating and handling instructions. This applies in particular to critical operating situations. The CP9xx Control Panel offers the user a solution that meets the requirements of modern medical locations as well as industrial and purpose-built buildings.

Possible applications:

Monitoring, operation and display of:

- IT systems
- Supply systems for medical gases
- Ventilation and air-conditioning systems
- Room lighting
- Operating theatre lights
- Special power supply systems (BSV (battery-based safety power supply) or UPS (uninterruptible power supply))
- Further systems from different manufacturers.

Optional accessories:

The detached I/O system offers numerous options for the integration of digital and analogue I/Os with different operating voltages, power, measurement signals or special functions into the alarm indicator and operator panel.

Communication with building management systems via common interfaces, such as:



The result is an all-around system which is both modular and flexible and can thus be adjusted, expanded or connected to new technologies.

Configuration, diagnosis, service:

Each panel can be individually manufactured and tailored to the requirements of the user. By integrating technical equipment into a single panel, a technical monitoring centre is created. It offers diagnostic options thanks to a complete system overview from a central point via a web browser, supported by data loggers and a history memory.

Parameter setting (setting limit values, entering individual customer texts, modifying the system configuration etc.) is optionally available.

Ordering details

Complete devices

Type	Display size	Supply	Device dimensions (W x H x D)	Weight	Display unit	Art. No.
CP907	7" (17.6 cm)	DC 24 V, < 15 W; PoE possible as an alternative	226 x 144 x 78 mm	1.1 kg	Glass, tempered, white	B95061080
CP915	15,6" (38.6 cm)	AC 100...240 V, < 30 W	505 x 350 x 92 mm	6.1 kg	Glass, tempered, white	B95061081
					Glass, tempered, gray	B95061085
CP924	24" (54.5 cm)	AC 100...240 V, < 55 W	654 x 441 x 100 mm	9.1 kg	Glass, tempered, white	B95061083
					Glass, tempered, gray	B95061084

Scope of delivery: display unit, flush-mounting enclosure incl. mounting plate with electronics, CP9xx connecting cable and plug connector kit.

Components separately

Device series	Type	Art. No.
CP907	Flush-mounting enclosure	B95100140
CP915	Display unit white	B95061090
	Display unit gray	B95061110
	Flush-mounting enclosure incl. mounting plate with electronics	B95061092
CP924	Display unit white	B95061111
	Display unit gray	B95061097
	Flush-mounting enclosure incl. mounting plate with electronics	B95061099

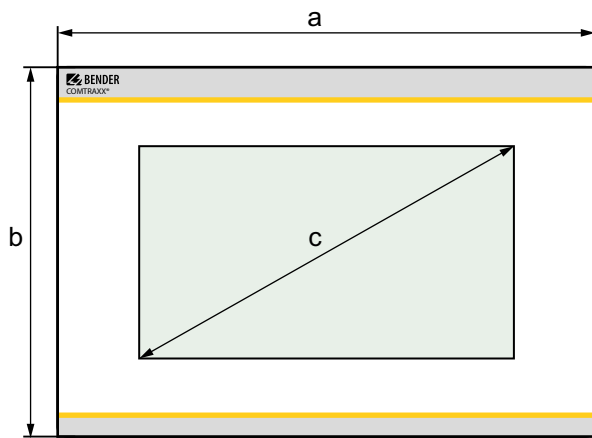
Accessories

Description	Art. No.
CP9xx replacement plug connector kit	B95061910
CP9xx suction lifter	B95061911

¹⁾ The suction lifter is needed to remove the display.

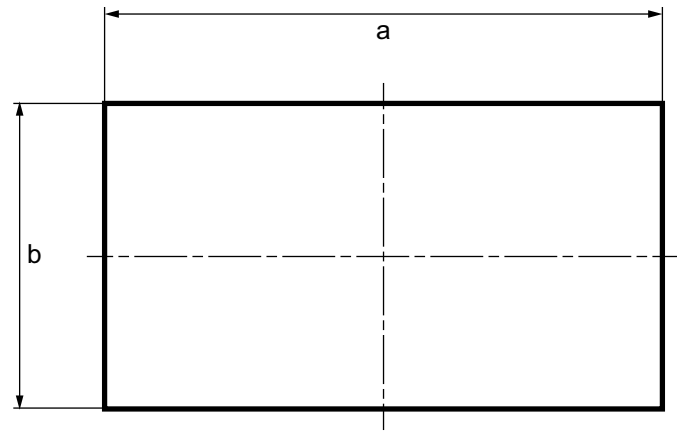
Other project-specific versions with foil surface or with additional internal components available on request:

- Charging tray for operating theatre table remote controls
- Intercom systems
- Operating theatre light controls
- Programmable backlit keypads
- Digital/Analogue inputs/outputs for installation in panel enclosures or control cabinets
- Data coupling to third-party systems
- Project-specific built-in enclosures
- Integration of third-party systems
- Antibacterial or highly transparent foil
- Exchange of existing control panels (Retrofit)
- etc.

External dimensions


Type	Dimensions (mm)		
	a	b	c
CP907	226	144	176 (7")
CP915	505	350	386 (15,6")
CP924	654	441	545 (24")

Glass thickness 3 mm

Installation dimensions – panel cut-out


Type	Abmessungen (mm)		Required installation depth
	a	b	
CP907	212	124	75
CP915	461	306	92
CP924	610	398	95

Technical data
Insulation coordination CP907 acc. to IEC 60664-1

Rated voltage	50 V
Overvoltage category	III
Pollution degree	2
Rated impulse voltage	800 V

Insulation coordination CP915 acc. to IEC 60664-1

Rated insulation voltage	AC 250 V
Overvoltage category	III
Pollution degree	2
Rated impulse voltage	4 kV

Supply CP907 via plug-in terminal (A1/+;A2/-)

Nominal voltage CP907	DC 24 V SELV/PELV
Nominal voltage tolerance	±20 %
Typical power consumption at DC 24 V	< 15 W
Connection	plug-in terminal (A1/+;A2/-)
Maximum cable length when supplied via B95061210 (DC 24 V power supply unit 1.75 A):	
0.28 mm ²	75 m
0.5 mm ²	130 m
0.75 mm ²	200 m
1.5 mm ²	400 m
2.5 mm ²	650 m

Supply via PoE

Nominal voltage	DC 48 V SELV/PELV
Nominal voltage tolerance	-25...+15 %
Typical power consumption for PoE	< 15 W
Maximum cable length when supplied via AWG 26/7; 0.14 mm ²	100 m

Supply CP915 via terminal block (L1; N)

Nominal voltage CP915 via external power supply unit	AC 100... 240 V
Nominal voltage tolerance	-15...+10 %
Frequency range Us	50...60 Hz
Typical power consumption at AC 230 V	< 30 W
Connection	terminal block (L1; N)

Stored energy time in the event of voltage failure

Time, date	min. 3 days
Restart after voltage interruption	min. 15 seconds

Displays, memory

Display CP907	7" TFT touch display
Display CP915	15.6" TFT touch display
Display CP924	24" TFT touch display
E-mail configuration and device failure monitoring	max. 250 entries
Individual texts	1200 texts with 100 characters each
Displayable devices	247
Number of data points for "third-party devices" to Modbus TCP and Modbus RTU	50
Number of data loggers	30
Number of data points per data logger	10,000
Number of entries in the history memory	1,000

Visualisation

Number of pages	20
Background image size	max. 3 MB/image; max. 50 MB total memory

Interfaces
Ethernet

Connection	RJ45
Data rate	10/100 Mbit/s, autodetect
DHCP	on/off (off)*
Toff (DHCP)	5...60 s (30 s)*
IP address	nnn.nnn.nnn.nnn (192.168.0.254)*, can always be reached via: 169.254.0.1
Net mask	nnn.nnn.nnn.nnn (255.255.0.0)*
Protocols (depending on function module selected)	TCP/IP, Modbus RTU, DHCP, SMTP, NTP

BCOM

Interface/protocol	Ethernet/BCOM
BCOM system name	(SYSTEM)*
BCOM subsystem address	1...255 (1)*
BCOM device address	1...255 (1)*

USB

Number	2
Operating mode	USB-2.0-Host (5 V, 500 mA)
Datarate	480 Mbit/s
Connection type	USB 2 Standard-A

Modbus TCP

Interface/protocol	Ethernet/Modbus TCP
Operating mode	Client for PEM and "third-party devices" assigned
Operating mode	Server for access to process image and for Modbus control commands

SNMP

Versions	1, 2c, 3
Devices supported	Queries to all devices (channels) possible (no trap functionality)

BMS bus

Interface/protocol	RS-485/BMS internal
Operating mode	master/slave (master)*
Baud rate	9.6 kbit/s
Cable length	< 1200 m

Cable: twisted pair, shielded, one end of shield connected to PE

Connection	recommended: J-Y(St)Y min. 2x0.8 "ABMS", "BBMS" (see plug-in terminal)
Terminating resistor	120 Ω (0.25 W), can be switched on internally (see plug-in terminal)
Device address	1...99 (1)*

Modbus RTU

Interface/protocol	RS-485/Modbus RTU
Operating mode	master
Baud rate	9.6...57.6 kbit/s
Cable length	< 1200 m

Cable: twisted pair, shielded, one end of shield connected to PE

Connection	recommended: J-Y(St)Y min. 2x0.8 "AMB", "BMB" (see plug-in terminal)
Terminating resistor	120 Ω (0.25 W), can be switched on internally (see plug-in terminal)
Supported Modbus RTU slave addresses	2...247

Digital inputs (1-12)

Number	12
Galvanic separation	yes
Operating mode	selectable for each input: active-high or active-low
Factory setting	active-high
Voltage range (high)	AC/DC 10...30 V
Voltage range (low)	AC/DC 0...2 V
Connection	plug-in terminal: (1;1;2;...12;12)
Maximum cable length	< 1000 m

Technical data

Switching elements

Number	1 changeover contact
Operating mode	N/C operation / N/O operation
Function	programmable
Electrical endurance under rated operating conditions, number of cycles	10,000

Contact data acc. to IEC 60947-5-1:

Utilisation category	AC-13	AC-14	DC-12
Rated operational voltage	24 V	24 V	24 V
Rated operational current	2 A	2 A	2 A
Minimum contact rating	1 mA at AC/DC > 10 V		
Connection	plug-in terminal: (11;12;14)		

Buzzer

Buzzer message	can be acknowledged, adoption of characteristics of new value
Buzzer interval	configurable
Buzzer frequency	configurable
Buzzer repetition	configurable

Audio (for CP015 and CP924 only)

Line IN	STEREO signal input via 3.5 mm jack plug
Line OUT	Output to a STEREO playback device via 3.5 mm jack plug

Device connections

Terminal block (L1; N; PE) (for CP015 and CP924 only)

Conductor sizes	AWG 20-12
Stripping length	10...11 mm
rigid/flexible	0.5...4 mm ²
flexible with ferrule with/without plastic sleeve	0.5...4 mm ²
Multiple conductor, flexible with TWIN ferrule with plastic sleeve	0.5...4 mm ²

Plug-in terminal (A1/+;A2/) (11;12;14)

Conductor sizes	AWG 24-12
Stripping length	10 mm
rigid/flexible	0.2...2.5 mm ²
flexible with ferrule with/without plastic sleeve	0.25...2.5 mm ²
Multiple conductor, flexible with TWIN ferrule with plastic sleeve	0.5...1.5 mm ²

Plug-in terminal (I1;k1;l2;k2...I12;k12) (AMB;BMB;SMB;ABMS;BBMS;SBMS)

Conductor sizes	AWG 24-16
Stripping length	10 mm
rigid/flexible	0.2...1.5 mm ²
flexible with ferrule without plastic sleeve	0.25...1.5 mm ²
flexible with ferrule with plastic sleeve	0.25...0.75 mm ²

Environment/EMC

EMC	IEC 61326-1
Operating temperature	-10...+55 °C
Range of use	≤ 2000 m AMSL
Humidity	≤ 98%

Classification of climatic conditions acc. to IEC 60721:

Stationary use (IEC 60721-3-3)	3K5 (except condensation and formation of ice)
Transport (IEC 60721-3-2)	2K11
Long-term storage (IEC 60721-3-1)	1K22

Classification of mechanical conditions acc. to IEC 60721:

Stationary use (IEC 60721-3-3)	3M4
Transport (IEC 60721-3-2)	2M4
Long-term storage (IEC 60721-3-1)	1M12

Other

Operating mode	continuous operation
Mounting	display-oriented
Degree of protection, front	IP54
Degree of protection, enclosure	IP20
Flammability class	UL 94V-0
Dimensions	
CP907 (W x H x D)	226 x 144 x 78 mm
CP915 (W x H x D)	505 x 350 x 92 mm
CP924 (W x H x D)	654 x 441 x 100 mm
Documentation number	D00349
Weight	
CP907	approx. 1.1 kg
CP915	approx. 6.1 kg
CP924	approx. 9.1 kg



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