



Range of products 2018





NEW GENERATION IN GAS DETECTION

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The customer support is not an activity for its own sake, but an active exchange of information, a service based on a solid and diversified know-how: technical assistance, sharing knowledge and technical information with customers and a close partnership with manufacturers; complex problem solving with the help of competent staff; constant and targeted updates to their products - sharing with users of the necessary skills for the use of the products; quality assurance, through the analysis of customer feedback and internal testing of products.



Our core values are:

- Achievement
- Innovation
- Empowerment
- Customer Satisfaction

Our priorities are to achieve sales growth through innovative product development listening to our customers and helping them achieve their aims.

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**Domestic
gas detection**

Flammable gas detector series GDT1

Technical features

Gas detected	Methane, LPG
Relay contacts rating	10A 250V resistive
Sensor technology	catalytic
Alarm threshold level	10% L.E.L.
Alarm signals	Optical (LED) and acoustic (Buzzer)
Working temperature	from -10°C to +40°C
Measures	170x108x39mm
IP protection	IP42



This gas detector has been designed and made in compliance with European standards to detect explosive gases.

A built-in microprocessor provides complete detection and control functionality and makes this device particularly suitable for domestic use. The device's built-in relay can be used to operate solenoid valves, sirens and other warning and alarm devices. Clever technical solutions make this detector extremely versatile, reliable, precise and safe to use. Because the relay is voltage free, more than one detector can be installed on a single solenoid valve to monitor a number of environments. A special electronic circuit monitors the efficiency of the sensors and signals any error condition.

Code	Power supply	Gas detected
GDT100111C	230V AC 50/60Hz	Natural gas (Methane)
GDT110111C	230V AC 50/60Hz	LPG
GDT100141C	115V AC 50/60Hz	Natural gas (Methane)
GDT110141C	115V AC 50/60Hz	LPG
GDT100131C	24V DC/AC	Natural gas (Methane)
GDT110131C	24V DC/AC	LPG
GDT100121C	12V DC/AC	Natural gas (Methane)
GDT110121C	12V DC/AC	LPG

Toxic gas detector series GDT2



Technical features

Relay contacts rating	10A 250V resistive
Carbon monoxide sensor technology	Electrochemical
Carbon dioxide sensor technology	Infrared
Carbon monoxide alarm threshold	EN50291
Carbon dioxide alarm threshold	1000ppm
Alarm signals	LED and Buzzer
Working temperature	from 10°C to +40°C
Measures	170x108x39mm
IP protection	IP42

This gas detector has been designed and made in compliance with European standards to detect Carbon monoxide or Carbon dioxide.

A built-in microprocessor provides complete detection and control functionality and makes this device particularly suitable for domestic use. The device detects Carbon monoxide when a maximum concentration is exceeded or when lower concentrations persist in the environment and could build up in the body to create a risk to health.

Code	Power supply	Gas detected
GDT220111C	230V AC 50/60Hz	Carbon monoxide (CO)
GDT220141C	115V AC 50/60Hz	Carbon monoxide (CO)
GDT240111C	230V AC 50/60Hz	Carbon dioxide (CO ₂)
GDT240141C	115V AC 50/60Hz	Carbon dioxide (CO ₂)

Methane and carbon monoxide detector series GDT3

Technical features

Gas detected	Methane and carbon monoxide
Relay contacts rating	10A 250V resistive
Sensor technology	Catalytic and Electrochemical
Alarm threshold level (explosive gas)	10% L.E.L.
Alarm threshold level (toxic gas)	According EN50291
Alarm signal	Optical (LED) and acoustic (Buzzer)
Working temperature	from -10°C to +40°C
Measures	170x108x39mm
IP protection	IP42



This gas detector has been designed and made in compliance with European standards to detect toxic and/or explosive gases.

A built-in microprocessor provides complete detection and control functionality and makes this device particularly suitable for domestic use. The device can detect methane with a trip sensitivity of 10% of the LEL as well carbon monoxide. CO can be detected when a maximum concentration is exceeded or when lower concentrations persist in the environment and could build up in the body to create a risk to health.

Code	Power supply
GDT330111C	230V AC 50/60Hz
GDT330141C	115V AC 50/60Hz

Flammable gas detector double supply series GDT4



Technical features

Power supply	230VAC or 12VDC
Output voltage pulse	12V
Gas detected	Methane, LPG
Relay contacts rating	10A 250V resistive
Sensor technology	catalytic
Alarm threshold level (explosive gas)	10% L.E.L.
Alarm signals	Optical (LED) and acoustic (Buzzer)
Working temperature	from -10°C to +40°C
Measures	170x108x39mm
IP protection	IP42

This gas detector has been designed and made in compliance with European standards to detect explosive gases.

A built-in microprocessor provides complete detection and control functionality and makes this device particularly suitable for domestic use. The device's built-in relay can be used to operate solenoid valves, sirens and other warning and alarm devices. Clever technical solutions make this detector extremely versatile, reliable, precise and safe to use. Because the relay is voltage free, more than one detector can be installed on a single solenoid valve to monitor a number of environments. A special electronic circuit monitors the efficiency of the sensors and signals any error condition.

Code	Power supply	Gas detected
GDT400111C	230V AC - 12V DC	Natural gas (Methane)
GDT410111C	230V AC - 12V DC	LPG
GDT400141C	115V AC - 12V DC	Natural gas (Methane)
GDT410141C	115V AC - 12V DC	LPG

Flammable gas detector kit with solenoid valve series GDK1

Technical features

Gas detected	Methane, LPG
Sensor technology	Catalytic
Alarm threshold level (flammable gas)	10% L.E.L.
Alarm signal	Optical (LED) and acoustic (Buzzer)
Valve material	brass
Max working pressure	500mbar
Valve working temperature	from -15°C to +60°C
Detector working temperature	from -10°C to +40°C
Valve IP protection	IP65
Detector IP protection	IP42

This kit consisting of a GDT1 gas detector and a solenoid valve allows complete protection of the home from escaping flammable gases. The gas leak is automatically interrupted outside the building once it is detected.

The detection system is managed by a processor that makes this device particularly suitable for home use. Accurate technical measures make this detector extremely versatile, reliable, precise and safe.



Code	Valve type	Gas detected	Power supply
GDK101011C	N.O. DN15 (1/2")	Natural gas (Methane)	230V AC 50/60Hz
GDK102011C	N.C. DN15 (1/2")	Natural gas (Methane)	230V AC 50/60Hz
GDK103011C	N.O. DN20 (3/4")	Natural gas (Methane)	230V AC 50/60Hz
GDK104011C	N.C. DN20 (3/4")	Natural gas (Methane)	230V AC 50/60Hz
GDK111011C	N.O. DN15 (1/2")	LPG	230V AC 50/60Hz
GDK112011C	N.C. DN15 (1/2")	LPG	230V AC 50/60Hz
GDK113011C	N.O. DN20 (3/4")	LPG	230V AC 50/60Hz
GDK114011C	N.C. DN20 (3/4")	LPG	230V AC 50/60Hz
GDK101041C	N.O. DN15 (1/2")	Natural gas (Methane)	115V AC 50/60Hz
GDK102041C	N.C. DN15 (1/2")	Natural gas (Methane)	115V AC 50/60Hz
GDK103041C	N.O. DN20 (3/4")	Natural gas (Methane)	115V AC 50/60Hz
GDK104041C	N.C. DN20 (3/4")	Natural gas (Methane)	115V AC 50/60Hz
GDK111041C	N.O. DN15 (1/2")	LPG	115V AC 50/60Hz
GDK112041C	N.C. DN15 (1/2")	LPG	115V AC 50/60Hz
GDK113041C	N.O. DN20 (3/4")	LPG	115V AC 50/60Hz
GDK114041C	N.C. DN20 (3/4")	LPG	115V AC 50/60Hz



**Industrial gas
detection**

Sensor IP65 series GSE1

Technical features

Power supply from 12VDC to 24VDC
 Sensor technology catalytic
 Output 4-20 mA
 Replacement sensitive element with recalibration
 Tester connection not available
 Failure signal on controller
 Working temperature from -10°C to +60°C
 Measures 110x75x60mm
 IP protection IP65



This detector with an IP65 degree of protection is able to detect flammable gases such as methane and LPG. Optimized to get the best value for money, it uses a microprocessor unit that can process gas concentration data and perform a dynamic calibration that ensures accurate detection. Thanks to its metal casing, it is suitable for use in harsh environments with variable temperatures avoiding false alarms.

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Code	Range	Gas detected
GSE10B421C	da 0 al 100%LEL	Natural gas (Methane)
GSE10B021C	da 0 al 100%LEL	LPG
GSE11B421C	da 0 al 20%LEL	Natural gas (Methane)
GSE11B021C	da 0 al 20%LEL	LPG

Sensor IP65 series GSE2

Technical features

Power supply	from 12VDC to 24VDC
Sensor technology	catalytic
Output	4-20 mA
Replacement sensitive element	with recalibration
Tester connection	available
Failure signal	on central unit and on controller
Working temperature ⁽¹⁾	from -10°C to +60°C
Measures	110x75x60mm
IP protection	IP65



This detector with an IP65 protection rating detects explosive gases (methane, LPG, etc.), toxic and asphyxiating. It uses a microprocessor unit that can process gas concentration data and perform a dynamic calibration that ensures accurate detection. Thanks to its metal casing, it is suitable for use in harsh environments with variable temperatures avoiding false alarms.

DIFFERENCES RESPECT GSE1:

- Wide selection of gases to be detected
- Possibility to connect expansion cards
- Ability to access data with a diagnostic tool

Code	Range	Gas detected
GSE200621C	from 0 to 100%LEL	Acetone (Propanone)
GSE201021C	from 0 to 100%LEL	Acetylene (Ethyne)
GSE201421C	from 0 to 100%LEL	Ammonia (Azane)
GSE261421C	from 0 to 100ppm	Ammonia (Azane)
GSE2B2621C	from 0 to 5%V	Carbon dioxide
GSE223021C	from 0 to 300ppm	Carbon monoxide
GSE253221C	from 0 to 10ppm	Chlorine
GSE205421C	from 0 to 100%LEL	Ethyl alcohol (Ethanol)
GSE206021C	from 0 to 100%LEL	Ethylene (Ethene)
GSE256821C	from 0 to 10ppm	Formaldehyde
GSE207621C	from 0 to 100%LEL	Gasoline vapors
GSE208221C	from 0 to 100%LEL	Hexane
GSE208821C	from 0 to 100%LEL	Hydrogen
GSE249821C	from 0 to 20ppm	Hydrogen sulfide
GSE20B021C	from 0 to 100%LEL	LPG
GSE20B421C	from 0 to 100%LEL	Methane
GSE20B621C	from 0 to 100%LEL	Methyl alcohol (Methanol)
GSE26D221C	from 0 to 100ppm	Nitric oxide
GSE27D021C	from 0 to 30ppm	Nitrogen dioxide
GSE20E621C	from 0 to 100%LEL	Nonane
GSE23D621C	from 15 to 25%V	Oxygen
GSE20E621C	from 0 to 100%LEL	Propane
GSE20G421C	from 0 to 100%LEL	Toluene (Methylbenzene)
GSE20G621C	from 0 to 100%LEL	Turpentine
GSE20H221C	from 0 to 100%LEL	Xylene

⁽¹⁾ Valid for detectors with LEL measuring range. See technical data sheet for details.

Addressable sensor IP65 series GSE4

Technical features

Power supply from 12VDC to 24VDC
 Sensor technology catalytic
 Output digital
 Replacement sensitive element with recalibration
 Tester connection available
 Failure signal on central unit and on sensor
 Working temperature⁽¹⁾ from -10°C to +60°C
 Measures 110x75x60mm
 IP protection IP65



This detector with an IP65 protection rating detects flammable gases (methane, LPG, etc.), toxic and asphyxiating. It uses a microprocessor unit that can process gas concentration data and perform a dynamic calibration that ensures accurate detection. Thanks to its metal casing, it is suitable for use in harsh environments with variable temperatures avoiding false alarms.

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DIFFERENCES RESPECT GSE2:

- Addressable with a digital protocol

Code	Range	Gas detected
GSE400621C	from 0 to 100%LEL	Acetone (Propanone)
GSE401021C	from 0 to 100%LEL	Acetylene (Ethyne)
GSE401421C	from 0 to 100%LEL	Ammonia (Azane)
GSE461421C	from 0 to 100ppm	Ammonia (Azane)
GSE4B2621C	from 0 to 5%V	Carbon dioxide
GSE423021C	from 0 to 300ppm	Carbon monoxide
GSE453221C	from 0 to 10ppm	Chlorine
GSE405421C	from 0 to 100%LEL	Ethyl alcohol (Ethanol)
GSE406021C	from 0 to 100%LEL	Ethylene (Ethene)
GSE456821C	from 0 to 10ppm	Formaldehyde
GSE407621C	from 0 to 100%LEL	Gasoline vapors
GSE408221C	from 0 to 100%LEL	Hexane
GSE408821C	from 0 to 100%LEL	Hydrogen
GSE449821C	from 0 to 20ppm	Hydrogen sulfide
GSE40B021C	from 0 to 100%LEL	LPG
GSE40B421C	from 0 to 100%LEL	Methane
GSE40B621C	from 0 to 100%LEL	Methyl alcohol (Methanol)
GSE46D221C	from 0 to 100ppm	Nitric oxide
GSE47D021C	from 0 to 30ppm	Nitrogen dioxide
GSE40E621C	from 0 to 100%LEL	Nonane
GSE43D621C	from 15 to 25%V	Oxygen
GSE40E621C	from 0 to 100%LEL	Propane
GSE40G421C	from 0 to 100%LEL	Toluene (Methylbenzene)
GSE40G621C	from 0 to 100%LEL	Turpentine
GSE40H221C	from 0 to 100%LEL	Xylene

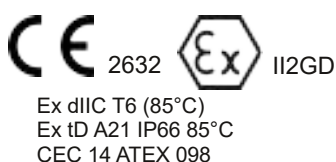
⁽¹⁾ Valid for detectors with LEL measuring range. See technical data sheet for details.

ATEX sensor series GSE6

Technical features

Power supply from 12VDC to 24VDC
 Sensor technology catalytic
 Output analogical 4-20 mA
 Replacement sensitive element not available
 Tester connection available
 Failure signal on central unit and on controller
 Working temperature⁽¹⁾ from -20°C to +60°C
 Measures 100x65mm

This ATEX detector with an IP66 protection rating detects flammable gases (methane, LPG, etc.), toxic and asphyxiating. It uses a microprocessor unit that can process gas concentration data and perform a dynamic calibration that ensures accurate detection. Thanks to its metal casing, it is suitable for use in harsh environments with variable temperatures avoiding false alarms.



Code	Range	Gas detected
GSE600631C	from 0 to 100%LEL	Acetone (Propanone)
GSE601031C	from 0 to 100%LEL	Acetylene (Ethyne)
GSE601431C	from 0 to 100%LEL	Ammonia (Azane)
GSE661431C	from 0 to 100ppm	Ammonia (Azane)
GSE6B2631C	from 0 to 5%V	Carbon dioxide
GSE623031C	from 0 to 300ppm	Carbon monoxide
GSE653231C	from 0 to 10ppm	Chlorine
GSE605431C	from 0 to 100%LEL	Ethyl alcohol (Ethanol)
GSE606031C	from 0 to 100%LEL	Ethylene (Ethene)
GSE656831C	from 0 to 10ppm	Formaldehyde
GSE607631C	from 0 to 100%LEL	Gasoline vapors
GSE608231C	from 0 to 100%LEL	Hexane
GSE608831C	from 0 to 100%LEL	Hydrogen
GSE649831C	from 0 to 20ppm	Hydrogen sulfide
GSE60B031C	from 0 to 100%LEL	LPG
GSE60B431C	from 0 to 100%LEL	Methane
GSE60B631C	from 0 to 100%LEL	Methyl alcohol (Methanol)
GSE66D231C	from 0 to 100ppm	Nitric oxide
GSE67D031C	from 0 to 30ppm	Nitrogen dioxide
GSE60E631C	from 0 to 100%LEL	Nonane
GSE63D631C	from 15 to 25%V	Oxygen
GSE60E631C	from 0 to 100%LEL	Propane
GSE60G431C	from 0 to 100%LEL	Toluene (Methylbenzene)
GSE60G631C	from 0 to 100%LEL	Turpentine
GSE60H231C	from 0 to 100%LEL	Xylene

⁽¹⁾ Valid for detectors with LEL measuring range. See technical data sheet for details.

Addressable ATEX sensor series GSE7

Technical features


Power supply from 12VDC to 24VDC
 Sensor technology catalytic
 Output digital
 Replacement sensitive element not available
 Tester connection available
 Failure signal on central unit and on controller
 Working temperature⁽¹⁾ from -20°C to +60°C
 Measures (dxh) 100x65mm

This ATEX detector with an IP66 protection rating detects explosive gases (methane, LPG, etc.), toxic and asphyxiating. It uses a microprocessor unit that can process gas concentration data and perform a dynamic calibration that ensures accurate detection. Thanks to its metal casing, it is suitable for use in harsh environments with variable temperatures avoiding false alarms.

Differences from GSE6:

Addressable sensor with a digital protocol.



CE 2632  IICGD
 Ex dIIC T6 (85°C)
 Ex tD A21 IP66 85°C
 CEC 14 ATEX 098

Code	Range	Gas detected
GSE700631C	from 0 to 100%LEL	Acetone (Propanone)
GSE701031C	from 0 to 100%LEL	Acetylene (Ethyne)
GSE701431C	from 0 to 100%LEL	Ammonia (Azane)
GSE761431C	from 0 to 100ppm	Ammonia (Azane)
GSE7B2631C	from 0 to 5%V	Carbon dioxide
GSE723031C	from 0 to 300ppm	Carbon monoxide
GSE753231C	from 0 to 10ppm	Chlorine
GSE705431C	from 0 to 100%LEL	Ethyl alcohol (Ethanol)
GSE706031C	from 0 to 100%LEL	Ethylene (Ethene)
GSE756831C	from 0 to 10ppm	Formaldehyde
GSE707631C	from 0 to 100%LEL	Gasoline vapors
GSE708231C	from 0 to 100%LEL	Hexane
GSE708831C	from 0 to 100%LEL	Hydrogen
GSE749831C	from 0 to 20ppm	Hydrogen sulfide
GSE70B031C	from 0 to 100%LEL	LPG
GSE70B431C	from 0 to 100%LEL	Methane
GSE70B631C	from 0 to 100%LEL	Methyl alcohol (Methanol)
GSE76D231C	from 0 to 100ppm	Nitric oxide
GSE77D031C	from 0 to 30ppm	Nitrogen dioxide
GSE70E631C	from 0 to 100%LEL	Nonane
GSE73D631C	from 15 to 25%V	Oxygen
GSE70E631C	from 0 to 100%LEL	Propane
GSE70G431C	from 0 to 100%LEL	Toluene (Methylbenzene)
GSE70G631C	from 0 to 100%LEL	Turpentine
GSE70H231C	from 0 to 100%LEL	Xylene

⁽¹⁾ Valid for detectors with LEL measuring range. See technical data sheet for details.

Stand-alone IP65 flammable gas detector series GDT7

Technical features

Gas detected Methane, LPG
 Relay contacts rating 6A 250V resistive
 Sensor technology catalytic
 Alarm threshold level 10% L.E.L.
 Alarm signals Optical (LED) and acoustic (Buzzer)
 Working temperature from -10°C to +50°C
 Measures 110x75x60mm
 IP protection IP65

This gas detector with IP65 degree of protection has been designed and built according to European legislation to detect flammable gases. The built-in microprocessor unit that can process gas concentration data and perform a dynamic calibration that ensures accurate detection. Accurate technical measures make this detector extremely versatile, reliable, precise and safe. The relay, free of voltage, allows then to install multiple detectors on a single solenoid valve, ensuring control over several hazardous environments. A special electronic circuit monitors the efficiency of the sensors and signals error situations.



Code	Power supply	Gas detected
GDT700211C	230V AC 50/60Hz	Natural gas (Methane)
GDT710211C	230V AC 50/60Hz	LPG
GDT700241C	115V AC 50/60Hz	Natural gas (Methane)
GDT710241C	115V AC 50/60Hz	LPG
GDT700231C	24V DC/AC	Natural gas (Methane)
GDT710231C	24V DC/AC	LPG
GDT700221C	12V DC/AC	Natural gas (Methane)
GDT710221C	12V DC/AC	LPG

Relay plug-in card series PEC02

Technical features

Power supply supplied from detector card
 Consumption 50 mA Max
 Intervention thresholds ⁽¹⁾ see table
 Relay contacts rating 2A @ 30VDC resistive
 Response time <2s
 Working relative humidity 0-80% non-condensing
 Working temperature from -20°C to +60°C
 Electromagnetic compatibility EN 50270



The PEC02 expansion board is a "plug-in" device that, connected to one of the GSE series gas detectors, allows to obtain two outputs in clean contact in order to interface with fire stations, BMS and other devices that require this type of connection. Both relays can operate as normally open or normally closed. The selection of the working mode of the relays is entrusted to a microswitch clearly visible on the board.

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Code	Relay 1	Relay 2
PEC022D01C	Alarm 30%L.E.L.	Fault
PEC022D11C	Alarm 20%L.E.L.	Fault
PEC022D21C	Alarm 30%L.E.L.	Alarm 20%L.E.L.
PEC022D31C	Alarm 50%L.E.L.	Alarm 20%L.E.L.
PEC022D41C	Alarm 20%L.E.L.	Alarm 20%L.E.L.
PEC022D61C	Alarm 20%L.E.L.	Alarm 10%L.E.L.
PEC022D71C	Alarm 40%L.E.L.	Alarm 30%L.E.L.
PEC022D81C	Alarm 50%L.E.L.	Fault
PEC022D91C	Alarm 50%L.E.L. ⁽²⁾	Alarm 20%L.E.L.
PEC022DA1C	Alarm 30%L.E.L.	Alarm 15%L.E.L.

Gas transducer series GTR

Technical features

Power supply supplied from detector card
 Output signal see table
 Working temperature see table
 External thread 3/4" NPT
 Connection cable length about 200mm
 Measures (wrxh) 32x46mm

The GTR transducers convert the concentration of the gas to be monitored into an electrical signal (analog or digital depending on the model). They are certified as components according to the ATEX directive. When used in areas classified as ATEX they must be installed on NRG detectors of the GSE6 or GSE7 series. If the area of use is not classified according to the ATEX directive it is possible to install them on the whole GSE series.

CE 2632 II2GD
 Ex dIIC T6 (85°C)
 Ex tD A21 IP66 85°C
 CEC 14 ATEX 158 U



Code	Gas detected	Working temperature	Signal
GTR1AI020C	Flammable	from -20°C to +60°C	Analog
GTR2AI020C	Carbon monoxide	from -10°C to +60°C	Analog
GTR2DI040C	Hydrogen sulfide	from -20°C to +50°C	Digital
GTR2DI050C	Oxygen	from -10°C to +50°C	Digital

⁽¹⁾ Intervention thresholds for toxic gases can be found in the instruction manual or on request.
⁽²⁾ Intervention delay of 20 seconds.

Central unit up to 4 zones series GCU104

Technical features

Power supply	230VAC 50Hz
Number of connectable remote detectors	4
Input signal	analogical 4-20 mA
Alarm threshold level (carbon monoxide)	adjustable
Alarm threshold level (explosive gas)	adjustable
Alarm signals	Optical (LED) and acoustic (Buzzer)
Relay contacts rating	10A 250V resistive
Working temperature	from -10°C to +60°C
Measures DIN model	161x96x62.5mm
Measures wall mount model	250x195x110mm

This gas detection control unit has been designed and manufactured according to the European standard for maximum versatility in the detection of toxic, explosive and asphyxiating gases. It is able to centralize from 1 to 4 remote sensors providing the gas concentration of each sensor on its LCD display. An internal microprocessor provides complete detection and control of functions and ensures a high level of versatility.

This and other technical devices make this unit particularly suitable for civil, industrial and small underground parking applications.



Code	Mounting	Power supply
GCU104D21C	DIN rail (IP20)	230V AC 50/60Hz - 12V DC
GCU104W21C	Wall Mount (IP65)	230V AC 50/60Hz - 12V DC
GCU104D24C	DIN rail (IP20)	115V AC 50/60Hz - 12V DC
GCU104W24C	Wall Mount (IP65)	115V AC 50/60Hz - 12V DC

Addressable central unit up to 4 zones series GCU204



Technical features

Power supply	230VAC 50Hz
Number of connectable remote detectors	4
Input signal	analogical 4-20 mA
Alarm threshold level (carbon monoxide)	adjustable
Alarm threshold level (explosive gas)	adjustable
Alarm signals	Optical (LED) and acoustic (Buzzer)
Relay contacts rating	10A 250V resistive
Working temperature	from -10°C to +60°C
Measures DIN model	161x96x62.5mm
Measures wall mount model	250x195x110mm

This gas detection unit has been designed and manufactured according to the European standard for maximum versatility in the detection of toxic, explosive and asphyxiating gases. It is able to centralize from 1 to 4 remote sensors providing the gas concentration of each sensor on its LCD display. Moreover, by means of a proprietary bus, it is able to be addressed by the control units of the GCU4xx series. An internal microprocessor provides complete detection and control of functions and ensures a high level of versatility.

This and other technical devices make this unit particularly suitable for civil, industrial and small underground parking applications.

Code	Mounting	Power supply
GCU204D21C	DIN rail (IP20)	230V AC 50/60Hz - 12V DC
GCU204W21C	Wall Mount (IP65)	230V AC 50/60Hz - 12V DC
GCU204D24C	DIN rail (IP20)	115V AC 50/60Hz - 12V DC
GCU204W24C	Wall Mount (IP65)	115V AC 50/60Hz - 12V DC

Central unit up to 10 zones series GCU410

Technical features

Primary power supply	30VAC 50/60Hz ± 10%
Secondary power supply	24VDC ± 10%
Relay contact range	250VAC resistive - 5A 30VDC resistive
Number of controlled sensors	up to 10
Sensor input signal	proprietary bus on RS485
Working temperature	-10°C to +40°C
Working humidity	0-80% RH (non condensed)
Distance from "slave" unit	<1000 m
Dimensions for the "W" version	406mm x 306mm x 200mm
Dimensions for the "P" version	163mm x 155mm x 112mm
Protecting rating for the "W" version	IP55
Protecting rating for the "P" version	IP20



This gas detection unit has been designed and made in compliance with European standards for maximum versatility in the detection of toxic and/or explosive gases via up to 10 remote sensors. A built-in microprocessor facilitates event monitoring and provides complete detection and control functions. This and other technical solutions make this unit particularly versatile and suitable for civil and industrial applications and underground car parks. The control unit has three alarm relays in order to separately control more solenoid valves and sirens. Moreover, the normally energized relay function make this control unit reliable and safe.

Code	Mounting	Add. power Supply	Options
GCU410P31C	Panel mount (IP20)	-	-
GCU410W31C	Wall Mount (IP55)	24VDC 35W	-
GCU410W32C	Wall Mount (IP55)	24VDC 35W	Wired terminal board

Central unit up to 30 zones series GCU430

Technical features

Primary power supply	230VAC 50/60Hz ± 10%
Secondary power supply	24VDC ± 10%
Relay contact range	10A 250VAC resistive - 5A 30VDC resistive
Number of controlled sensors	up to 30
Sensor input signal	proprietary bus on RS485
Working temperature	-10°C to +40°C
Working humidity	0-80% RH (non condensed)
Distance from "slave" unit	<1000 m
Dimensions for the "W" version	406mm x 306mm x 200mm
Dimensions for the "P" version	163mm x 155mm x 112mm
Protecting rating for the "W" version	IP55
Protecting rating for the "P" version	IP20



This gas detection unit has been designed and manufactured according to the European standard for maximum versatility in the detection of toxic, explosive and asphyxiating gases. It is able to centralize from 1 to 30 remote sensors providing the gas concentration of each sensor on its TFT display. An internal microprocessor provides complete detection and control of functions and ensures a high level of versatility. This and other technical measures make this unit particularly suitable for industrial applications and underground parking. The control panel has three alarm relays to separately control several solenoid valves. Furthermore, the positive safety on the main relay makes it particularly reliable and safe.

Code	Mounting	Add. power Supply	Options
GCU430P31C	Panel mount (IP20)	-	-
GCU430W31C	Wall Mount (IP55)	24VDC 75W	-
GCU430W32C	Wall Mount (IP55)	24VDC 75W	Wired terminal board

Central unit up to 256 zones series GCU413

Technical features

Primary power supply	230VAC 50/60Hz ± 10%
Secondary power supply	24VDC ± 10%
Relay contact range	10A 250VAC resistive - 5A 30VDC resistive
Number of controlled nodes	up to 256
Sensor input signal	proprietary bus on RS485
Working temperature	-10°C to +40°C
Working humidity	0-80% RH (non condensed)
Distance from "slave" unit	<1000 m
Dimensions for the "W" version	406mm x 306mm x 200mm
Protecting rating for the "W" version	IP55

This gas detection unit has been designed and manufactured according to the European standard for maximum versatility in the detection of toxic, explosive and asphyxiating gases. It is able to centralize from 1 to 256 remote sensors providing the gas concentration of each sensor on its TFT display. An internal microprocessor provides complete detection and control of functions and ensures a high level of versatility.

This and other technical measures make this unit particularly suitable for industrial applications and underground parking.

The control panel has three alarm relays to separately control several solenoid valves. Furthermore, the positive safety on the main relay makes it particularly reliable and safe.



Code	Mounting	Add. power Supply	Options
GCU413W31C	Wall Mount (IP55)	-	-
GCU413W32C	Wall Mount (IP55)	-	Wired terminal board



**Seismic
detection**

Flammable gas detector with seismic sensor series GDT5

Technical features

Gas detected	Methane, LPG
Relay contacts rating	10A 250V resistive
Sensor technology	catalytic
Seismic sensor technology	3 axes MEMS accelerometer
Alarm threshold level (explosive gas)	10% L.I.E.
Alarm threshold level (seismic)	ASCE 25-16
Alarm signals	Optical (LED) and acoustic (Buzzer)
Working temperature	from -10°C to +40°C
Measures	170x108x39mm
IP protection	IP42



The "Sismagas" GDT5 detector, thanks to its peculiar anti-seismic device, is a technologically advanced device. A 32-bit microprocessor allows complete surveillance and excellent system control ensuring maximum flexibility. Together with the catalytic sensor technology, the device detects the presence of explosive gases such as methane and LPG, with an alarm threshold calibrated to 10% L.I.E. Through the relay you can activate: the solenoid valve, the siren, and other alarm signals. The microswitches offer the possibility to select the relay pulse functions, to manually connect the solenoid valves and to activate class "A" N.C. for solenoid valves and sirens. The internal triaxial acceleration device allows detecting seismic events according to the ASCE standard 25-16.

Code	Power supply	Gas detected
GDT500111C	230V AC 50/60Hz	Natural gas (Methane)
GDT510111C	230V AC 50/60Hz	LPG
GDT500141C	115V AC 50/60Hz	Natural gas (Methane)
GDT510141C	115V AC 50/60Hz	LPG

Seismic detector series SDT21



Technical features

Power supply	see the code table
Seismic alarm threshold	ASCE 25-16
Valve relay contacts	8A 250VAC (2kVA) AC1 500VA AC15
Auxiliary relay contacts	0.5A 250VAC res. 2A 30VCC res.
Working temperature	from -10°C to + 40°C
Measures	132x91x78mm
IP protection	IP65

The "Simalock" seismic detector, combined with a safety valve, closes the gas passage in case of seismic events (with time and frequency analysis on three acceleration axes) and allows remote control by additional safety devices (gas detectors, emergency buttons). This device also includes an auxiliary alarm output for connection to fire control units, BMS or other alarm devices. The sensor can be installed on normally closed or open solenoid valves. The seismic detector can also be applied to previously installed solenoid valves.

Code	Power supply
SDT210113C	230V AC 50/60Hz
SDT210143C	115V AC 50/60Hz
SDT210133C	24V AC 50/60Hz - 24VDC
SDT210123C	12V AC 50/60Hz - 12VDC

Seismic detector series SDT22

Technical features

Power supply	see the code table
Seismic alarm threshold	ASCE 25-16
Valve relay contacts	8A 250VAC (2kVA) AC1 500VA AC15
Auxiliary relay contacts	0.5A 250VAC res. 2A 30VCC res.
Analog output signal	4 ÷ 20 mA
Digital output signal	RS485 on 3 wires
Operating temperature	from -20°C to +60°C
Measures	180x163x77mm
IP protection	IP66



The SismalockEvo seismic detector is a device able to measure telluric vibrations using multiple sensors with MEMS technology. The mechanical signal perceived by the device is converted into an electrical signal, analyzed with a proprietary algorithm, and used to activate safety devices such as solenoid valves for dangerous fluids. The action of closing the solenoid valves can take place either directly, through the internal safety relay, or alternatively through a central unit (if the sensor is part of a network). The SismalockEvo uses redundant components for greater security in the detection and allows the sending of data related to the earthquake by means of a signal with the standard 4-20mA or a signal on the RS485 bus.

Code	Power supply
SDT220251C	85~305V AC 47~63Hz
SDT220231C	24V AC 50/60Hz - 24VDC
SDT220221C	12V AC 50/60Hz - 12VDC

Central unit up to 16 zones series FF2

Technical features

Primary power supply	230VAC 50/60Hz ± 10%
Secondary power supply	24VDC ± 10%
Relay contact range	10A 250VAC res. - 5A 30VDC res.
Number of controlled sensors	up to 16
Signal from the detectors	proprietary bus on RS485
Working humidity	0-80% RH (non-condensing)
Working temperature	from -10°C to +40°C
Distance from the "slave" unit	<1000 m
Measures	406mm x 306mm x 200mm
IP protection	IP55



This seismic detection unit has been designed and built for maximum safety in detecting seismic events. It is able to manage from 1 to 16 remote sensors providing the seismic vibration level of each sensor on its TFT display. An internal microprocessor provides complete detection and control of functions and ensures a high level of versatility. This and other technical measures make this unit particularly suitable for industrial applications. The control panel has three alarm relays to separately control several solenoid valves. Furthermore, the positive safety on the main relay makes it particularly reliable and safe.

Code	Mounting	Add. power Supply	Options
FF2416P31C	Panel mount (IP20)	-	-
FF2416W31C	Wall Mount (IP55)	24VDC 35W	-
FF2416W32C	Wall Mount (IP55)	24VDC 35W	Wired terminal board

Gas/seismic detector kit with solenoid valve series GDK5

Technical features

Gas detected	Methane, LPG
Gas sensor technology	Catalytic
Flammable gas alarm threshold	10 % LIE
Alarm signals	LED and Buzzer
Valve material	brass
Max working pressure	500mbar
Valve working temperature	from -15°C to +60°C
Detector working temperature	from -10°C to +40°C
Valve IP protection	IP65
Detector IP protection	IP42

This kit consists of a GDT5 gas/seismic detector and a solenoid valve that allows complete protection of the dwelling from flammable gas leaks due to seismic events. The gas leak is automatically interrupted outside the building either in the case it is detected by the gas sensor that if a telluric shock is detected.

The detection system is managed by a processor that makes this device particularly suitable for home use. Accurate technical measures make this detector extremely versatile, reliable, precise and safe.



Code	Valve type	Gas detected	Power supply
GDK501011C	N.O. DN15 (1/2")	Natural gas (Methane)	230V AC 50/60Hz
GDK502011C	N.C. DN15 (1/2")	Natural gas (Methane)	230V AC 50/60Hz
GDK503011C	N.O. DN20 (3/4")	Natural gas (Methane)	230V AC 50/60Hz
GDK504011C	N.C. DN20 (3/4")	Natural gas (Methane)	230V AC 50/60Hz
GDK511011C	N.O. DN15 (1/2")	LPG	230V AC 50/60Hz
GDK512011C	N.C. DN15 (1/2")	LPG	230V AC 50/60Hz
GDK513011C	N.O. DN20 (3/4")	LPG	230V AC 50/60Hz
GDK514011C	N.C. DN20 (3/4")	LPG	230V AC 50/60Hz

Seismic detectors kit with central unit series SDK21

Technical features

Power supply	230VAC or 12VCC
Seismic alarm threshold	selectable
Valve relay contacts	8A 250VAC (2kVA) AC1 500VA AC15
Auxiliary relay contacts	0.5A 250VAC res. 2A 30VCC res.
Working temperature	from -10°C to +40°C
IP protection for control unit	IP66
IP protection for detectors	IP65

This kit, consisting of three SDT21 seismic detectors, a GSE2 gas leak detector, and a signal collecting unit, allows the complete protection of the house both in case of a seismic event and in case of flammable gas leakage.

The gas leak is automatically interrupted outside the building by a gas solenoid valve.

The detection system is managed by a control unit with a processor that makes this device particularly suitable for home use. Accurate technical measures make this detector extremely versatile, reliable, precise and safe.



Code	Gas detected
SDK210011C	Natural gas (Methane)
SDK211011C	LPG

Seismic detectors kit with central unit series SDK22



Technical features

Power supply	230VAC or 12VCC
Seismic alarm threshold	selectable
Valve relay contacts	8A 250VAC (2kVA) AC1 500VA AC15
Auxiliary relay contacts	0.5A 250VAC res. 2A 30VCC res.
Working temperature	from -10°C to +40°C
IP protection for control unit	IP66
IP protection for detectors	IP66

This kit, composed of three SDT22 seismic detectors, a GSE2 gas leak detector, and a signal collecting unit, allows the complete protection of the house both in case of a seismic event and in case of flammable gas leakage.

The gas leak is automatically interrupted outside the building by a gas solenoid valve.

The detection system is managed by a central unit with a processor that makes this device particularly flexible and programmable. Accurate technical measures make this detector extremely versatile, reliable, precise and safe.

Code	Gas detected
SDK220011C	Natural gas (Methane)
SDK221011C	LPG



Instruments and accessories

Portable gas detector for flammable and refrigerant gases series PGD1

Technical features

Power supply internal battery
 Battery test available
 Replacement sensitive element available
 Working temperature from 0°C to +50°C
 Measures 178x178mm

It allows the installer to detect leaks of methane, LPG or refrigerant gas from pipes and gas appliances through an acoustic and visual warning. Locate leaks quickly and easily. Battery powered. Minimum autonomy of six hours for continued use. An auto-off function saves battery power.



Code	Gas detected
PGD107000C	Refrigerant gases CFC'S, HCFC'S, HFC'S
PGD10B400C	Methane, LPG, Hydrogen, Acetilene and other explosive gases

Portable gas detector for flammable gases series PGD1



Technical features

Power supply internal battery
 Battery test not available
 Working temperature from -20°C to +60°C
 Measures 170x62x26mm

Allows the installer to detect leaks of methane or LPG from pipes and gas appliances through an acoustic and visual warning. Locate leaks quickly and easily. Battery powered. Minimum autonomy of six hours for continuous use. An auto-off function saves battery power.

Code	Gas detected
PGD10B410C	Methane, LPG, Hydrogen, Acetilene and other explosive gases

Calibration kit series GTK

Technical features

Fixed cap 3/4" brass
 Adaptor cap 3/4" rubber
 Valve type manual
 Storage temperature from -10°C to +50°C

The calibration kit supplied with the case contains the necessary to check the gas response of NRG detectors in the field. The calibration cap has the possibility to adapt to all the detection heads produced using, if necessary, the reducer included in the kit.

The threads inside the calibration cap allow obtaining an excellent seal between the detector head and the same cap.

The analysis chamber inside the calibration cap is designed and built to obtain a test method identical to that used in our laboratories for initial calibration.

The cylinder valve allows the test gas to be delivered at such a speed as to obtain truthful data regarding the state of health of the sensitive element.



Code	Type
GTK001001C	Without calibrated bottles
GTK002001C	With 1 GMC1 calibrated bottle
GTK003001C	With 2 GMC1 calibrated bottles
GTK004001C	With 3 GMC1 calibrated bottles

Disposable sample gas bottles series GMC1

Technical features

Volume 1l
 Supply through valve not included
 Measures 74x260mm
 Accuracy on requested value $\pm 5\%$
 Accuracy on declared value $\pm 2\%$

The gas detection equipment must undergo periodic testing. The gas used for this purpose must be carefully calibrated so that the test results are effective and reliable. The use of a calibrated gas source is also required by European standards.

Further information

Minimum pack 10 cans except material in stock.
 Indicatively with a GMC1, the user can test from 5 to 7 detectors.
 For off-the-shelf mixtures require specific feasibility and characteristics



Code	Mixture	Concentration
GMC10B456C	Methane in air	10% L.E.L.
GMC10B462C	Methane in air	22% L.E.L.
GMC10B468C	Methane in air	33% L.E.L.
GMC103034C	Carbon monoxide in air	330ppm
GMC10E668C	Propane in air	33% L.E.L.
GMC108868C	Hydrogen in air	33% L.E.L.

Disposable sample gas bottles series GMC2



Technical features

Volume 1.6l
 Supply through valve not included
 Measures 80x300mm
 Accuracy on requested value $\pm 5\%$
 Accuracy on declared value $\pm 2\%$

The gas detection equipment must undergo periodic testing. The gas used for this purpose must be carefully calibrated so that the test results are effective and reliable. The use of a calibrated gas source is also required by European standards.

Further information

Minimum packaging 3 cans, except material in stock.
 For off-the-shelf mixtures require specific feasibility and characteristics.

Code	Mixture	Concentration
GMC20B456C	Methane in air	10% L.E.L.
GMC20B462C	Methane in air	22% L.E.L.
GMC20B468C	Methane in air	33% L.E.L.
GMC203034C	Carbon monoxide in air	330ppm
GMC20E668C	Propane in air	33% L.E.L.
GMC208868C	Hydrogen in air	33% L.E.L.

Gas supply valve series MVL1

Technical features

Adjusting valve flow through faucet
 Gas output Hose connector
 Compatible sample gas bottles see table
 Measures 66x62x31mm



Dispensing valve used for the emission of the calibrated gas to perform the detector tests.

Code	Material
MVL101010C	Brass
MVL201020C	Steel

GCU programming software - GCU16Pro

Technical features

Data storage format Business Card CD
 Supported O.S Microsoft Windows 7, 8, 10
 Compatible controllers GCU104 - GCU204
 Cable lenght 1.8m

The GCU16Pro software is a software tool on a Windows platform designed to facilitate the programming of the gas detection control units of the GCU series. A cable with USB connection is included in the package. The license is unlimited both temporally and for the number of users.



Code	Software language
PTK001001C	English

GCU programming software - GCU413Pro



Technical features

Data storage format Business Card CD
 Supported O.S Microsoft Windows 7, 8, 10
 Compatible controllers GCU413
 Cable lenght 1.8m

The GCU413Pro software is a software tool on a Windows platform designed to facilitate the programming of the gas detection control units of the GCU series. A cable with USB connection is included in the package. The license is unlimited both temporally and for the number of users.

Code	Software language
PTK003001C	English

GSE verification software - GSE Tester

Technical features

Data storage format Business Card CD
 Supported O.S Microsoft Windows 7, 8, 10
 Compatible sensors GSE2 - GSE6
 Cable lenght 1.8m

The GSE Tester software is a tool on a Windows platform designed for the verification and periodic re-calibration of GSE series gas sensors. A cable with USB connection is included in the package. The license is unlimited both temporally and for the number of users.



Code	Software language
PTK002001C	English

Cable gland series PRC2



Technical features

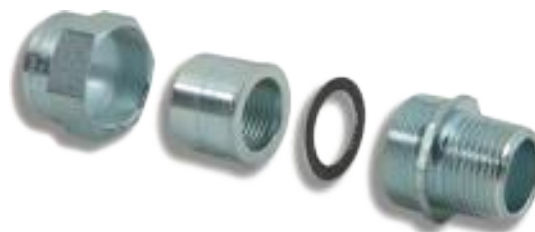
Metallic parts brass OT58 or stainless steel AISI316
 Seals EDPM antiageing rubber
 Working temperature from -45°C to +150°C

Code	Material and protection	Measures
CGD222532C	Nickel plated Brass IP66 Ex	1/2" - 5.5 to 13mm cable

Fitting series FTT

Technical features

Metallic parts brass OT58 or stainless steel AISI316
 Seals EDPM antiageing rubber
 Working temperature from -45°C to +150°C



Code	Type
FTT010302C	M 3/4" - F 1/2"

Plug series MPL



Technical features

Metallic parts brass OT58 or stainless steel AISI316
 Seals EDPM antiageing rubber
 Working temperature from -45°C to +150°C

Code	Type
MPL305012C	Male 3/4"

Normally open gas solenoid valve series EVL1

Technical features

Material brass
 Supply tolerance from -15% to +10% of nominal value
 Max working pressure 500mbar
 Closing time < 1s
 IP protection IP65
 Working temperature from -15°C to +60°C

Gas solenoid valves have been designed to be combined with any gas detection system. They are installed on the gas pipe and connected to the gas detector. They interrupt the flow of gas in dangerous situations.



Code	Type	Power supply
EVL162100C	Manual resetting DN15 (1/2")	230V AC 50Hz
EVL163100C	Manual resetting DN20 (3/4")	230V AC 50Hz
EVL164100C	Manual resetting DN25 (1")	230V AC 50Hz

Normally close gas solenoid valve series EVL3



Technical features

Material brass
 Supply tolerance from -15% to +10% of nominal value
 Max working pressure 500mbar
 Closing time < 1s
 IP protection IP65
 Working temperature from -20°C to +50°C

Gas solenoid valves have been designed to be combined with any gas detection system. They are installed on the gas pipe and connected to the gas detector. They interrupt the flow of gas in dangerous situations.

Code	Type	Power supply
EVL362100C	Manual resetting DN15 (1/2")	230V AC 50Hz
EVL363100C	Manual resetting DN20 (3/4")	230V AC 50Hz
EVL364100C	Manual resetting DN25 (1")	230V AC 50Hz

Two-way ATEX solenoid valve series EVL5

Technical features

Material copper
 Supply tolerance from -10% to +10% of nominal value
 Ex protection class II2GD (EEx-d IIB, IIC), II1/2GD (EEx-d IIB, IIC)
 Max working pressure 16bar
 Differential working pressure min/max 0/5bar
 IP protection IP67
 Working temperature from -20°C to +40°C



Further information

Other diameters available on request.

Code	Type	Power supply
EVL564401C	NC Manual resetting DN25 (1")	230V AC 50Hz
EVL564402C	NO Manual resetting DN25 (1")	230V AC 50Hz

Two-way ATEX solenoid valve (servo assisted) series EVL6



Technical features

Material brass
 Supply tolerance from -10% to +10% of nominal value
 Ex protection class II2GD (EEx-d IIB, IIC), II1/2GD (EEx-d IIB, IIC)
 Max working pressure 20bar
 Differential working pressure min/max 0,3/10bar
 IP protection IP67
 Working temperature from -20°C to +40°C

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Code	Type	Power supply
EVL664103C	NC Automatic DN25 (1")	230V AC 50Hz
EVL665103C	NC Automatic DN32 (1"¼)	230V AC 50Hz
EVL666103C	NC Automatic DN40 (1"½)	230V AC 50Hz
EVL667103C	NC Automatic DN50 (2")	230V AC 50Hz

Switching power supply series PSU1E

Technical features

Power supply 230VAC 50Hz
 Protection short circuit, overcharge, overvoltage
 No-load consumption <0.5W
 Working temperature from -20°C to +70°C



This power supply, characterized by compactness and a high-efficiency design, provides an electric power supply at a constant voltage. It is generally used to supply alarm or gas detection devices that require different voltages from those of the network.

Code	Output voltage	Power
PSU1E25010	12VDC	25W
PSU1E75010	12VDC	75W
PSU1E10110	12VDC	100W
PSU1E25020	24VDC	25W
PSU1E75020	24VDC	75W
PSU1E10120	24VDC	100W

Switching power supply DIN rail series PSU1D



Technical features

Power supply 230VAC 50Hz
 Protection short circuit, overcharge, overvoltage
 No-load consumption <0.5W
 Working temperature from -20°C to +60°C

This DIN bar power supply, characterized by compactness and a high-efficiency design, provides an electric power supply at a constant voltage. It is generally used to supply alarm or gas interception devices that require different voltages from those of the network.

Code	Output voltage	Power
PSU1D30010	12VDC	30W
PSU1D60010	12VDC	60W
PSU1D10110	12VDC	100W
PSU1D30020	24VDC	30W
PSU1D60020	24VDC	60W
PSU1D10120	24VDC	100W
PSU1D12040	5VDC	12W

Rechargeable battery series LBT1

Technical features

Technology lead - lead dioxide
 Average life from 3 to 5 years
 Rated voltage 12VDC
 Working temperature from -10°C to +60°C



Code	Capacity	Measures
LBT11A200C	1,2Ah	97x43x58mm
LBT12A300C	2,3Ah	178x35x67mm
LBT100700C	7Ah	151x65x100mm

Flashing siren series FAS1



Technical features

Power output 99 dB(A) a 1m
 Luminous intensity 200cd
 IP protection IP66
 Working temperature from -25°C to +55°C
 Measures 172x86x83mm

Code	Power supply
FAS1112D0C	12V DC
FAS1124D0C	24V DC
FAS1124A0C	24V AC
FAS111150C	115V AC
FAS112300C	230V AC

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The guarantee of electric appliances, motors and measuring instruments is that by the relevant manufacturing companies and does not cover damages or failures due to incompetence in assembling and/or maintenance. In any of the case we are not eligible to send our technician to the customer. The guarantee responds exclusively only on the products and the manufacturing company does not respond to the damages caused by uncorrect functioning of the products.

The goods returned to our company for repairing or other reasons whatsoever shall be shipped carriage free. Every return of goods needs to get our previous consent. Should we receive returned goods freight forward, we shall report it immediately and charge transport costs along with the repairing prices.

We do not commit to carry out orders in full and a lack of some items, if any, shall not entitle the buyer to make legal objections or deductions or to stop payments.

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