



LUCK IS NOT A SAFETY DEVICE ... ENTRUST YOU TO BEINAT



electric connections also available on Channel: Beinat gas solutions



Styling b&b design

Company Beinat S.r.L.



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Beinat S.r.l. was founded in Ciriè, Piedmont, in 1978, from a pre-existing five-year company.

During over 45 years, our passion for electronics and our capacity in realizing innovative and state-of-the-art products made us a leader in our industry.

Nowadays, words like "security", "comfort" and "beauty" have an increasing importance and are synonyms of social evolution.

From this essential requirement, Beinat S.r.I. has always been investing a good part of its resources in: technology, research, personal effort, human resources.

During the years, this desire of improvement brought about a wide range of products intended to satisfy the most demanding requests, both for civil and industrial markets.

Despite being an entirely Italian reality, Beinat S.r.l. does not disregard foreign markets. From there, it draws innovative and refined ideas to be exported as a considerable part of its production. Its products' design can be observed in factories and houses all over the world: Europe, Africa, Asia, America.

Beinat's main fields of business are: civil and industrial security with regard to gas and fire; temperature control; professional instrumentation and electronic control.

Beinat S.r.I. manufactures and markets its products according to EN and CEE European Norms, and provides insurance up to a maximum of € 1,500,000.00.

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The brand products BEINAT S.r.L. comply with European Directives ROHS 2002/95/EC, REACH 1907/2006, BATTERIES AND ACCUMULATORS 2006/66/EC RAEE 2003/96/EC Page 2



Household Gas Detector type A GSH900

Power supply: Power Demand: Main Alarm Relays: Sensor: Alarm threshold: Degree of protection: Installation: Compatible plate-covers: Size: Packaging: Weight:

230/240 VAC 50/60 Hz. 1 W 10A 250V resistive Catalvtic At 10% of L.E.L. IP42 Embedded Living, Ave 65x45x50 3 modules 100x130x95 200 grams about



Using the catalytic sensor, the GSH900 detector detects the presence of explosive gases such as: Methane and LPG, with trip sensitivity calibrated at 10% of L.E.L.

According to the **CEI 216- 8 Norm of 2005**, the detectors are trigged by a specific combustible gas concentration in the environment. The detectors should tolerate common vapours and interfering substances usually present in household environments, and guarantee a high stability with temperature and humidity variations. The relay, free of voltage, allows installation of multiple detectors on a single solenoid valve ensuring control of multiple dangerous environments.

Household Gas Detector type A GS911K

230/240 VAC 50/60 Hz. 1W 10A 250V resistive Catalytic At 10% of L.E.L. IP42 Wall mounted 115x150x50 120x168x60 315 grams about



Using the catalytic sensor inside it, the GS911K detector detects the presence of explosive gases such as: Methane, LPG, with trip sensitivity calibrated to 10% of Lower Explosion Limit, and can activate solenoid valves, sirens and any other signal or alarm handling device, by means of the built-in relay. A series of technical features make this gas detector extremely versatile, reliable, accurate, and safe. The relay, free of voltage, allows installation of multiple detectors

on a single solenoid valve ensuring control of multiple dangerous environments.

The detector is complete with a special circuit that controls the catalytic sensor's efficiency level, and signals any possible fault.

Household Gas Detector type A RGX100

¢.,)	
	Power supply:	230/240VAC 50/60Hz.	
	Battery Power supply:	12 VDC ± 10%	
	Battery:	12 V. 1,2 Ah	
	Battery charger:	Built in	
	Power Demand:	1 W	5
	Main Alarm Relays:	10A 250V resistive	· · · · ·
	Sensor:	Catalytic	
	Alarm threshold:	At 10% of L.E.L.	Cument
	Solenoid valve:	12VDC Impulsive	
	Degree of protection:	IP42	
	Installation:	Wall mounted	
	Size:	115x150x50	
	Packaging:	120x168x60	
	Weight:	315 grams about	
	2	J	1

From the elegance and prestige that has always characterized **RGX100** an household gas detector which is able to find via the **RGX100** an household gas detector which is able to find via the catalytic sensor, the presence of : Natural gas or LPG. The intervention threshold is fixed to 10 % LEL. The power supply unit allows driving of a manual reset solenoid valve with a **12Vdc** coil, without any buffer battery. If the voltage

absorption is too high, you can later integrate a suitable backup batterv

The battery is recharged automatically.

Using the built-in relay the RGX100 can activate: solenoid

valves, sirens, and any other alarm signal device. The technical scheme is completed by a circuit that controls the catalytic sensor "efficiency level" and signals any possible fault.

The relay, free of voltage, allows installation of multiple detectors on a single solenoid valve ensuring control of multiple dangerous environments.

Household Gas Detector with seismic feature type A GS920

Power Supply: Battery power supply: Battery:
Power Demand:
Main Alarm Relays:
Sensor :
Alarm threshold:
Anti Seismic Control:
Positive Safety:
Degree of protection:
Size:
Packaging:
Weight:

230/240 VAC 50/60Hz 12 V. dc \pm 10% 1,2 Ah 2W 10A 250V resistive Catalytic al 10% LIE Incorporated Selection IP42 115x150x50 120x168x60 420 grams about



The GS920, thanks to its seismic detection feature and the The GS920, thanks to its seismic detection feature and the possibility of selecting the intrinsic safety control, is a leading-edge technological device. Together with its catalytic sensor technology, it detects the presence of explosive gas, such as: Methane and LPG, with trip threshold calibrated at 10% of Lower Explosion Limit. Using the built-in relay it can activate: solenoid valves, sirens, and any other alarm signal device. The power supply assembly allows operation without the need of a backup battery, a manual reset solenoid valve with a 12Vdc

coil. However, if the voltage absorption is too high, you can connect a suitable backup battery, which is recharged automatically. The seismic control allows closure of the solenoid valve, stopping the gas original source.





Household Toxic and Explosive Gas Detector type A CHCO

Power supply: Power Demand: Alarm Relay for Espl. gas: Alarm Relay for Toxic gas: Sensors Explosive Gas: Sensors Toxic Gas: Espl. Alarm threshold: Toxic Alarm threshold: Degree of protection: Degree of protection: Size: Packaging: Weight:

230/240 VAC 50/60 Hz. 1 \// 10A 250V resistive 10A 250V resistive Catalytic Electrochemical Cell At 10% of L.E.L. From 30 to 300ppm IP42 Wall mounted 115x150x50 120x168x60 340 grams about



The CHCO Detector has been designed and built according to European regulations to detect the presence of toxic and/or explosive gas flexibly.

The CHCO detector can detect the presence of two gases. The first gas detected is Methane, with trip sensitivity calibrated at 10% of L.E.L. The second gas detected is Carbon Monoxide. This probe is useful when both the maximum CO admissible concentration threshold of 300ppm is exceeded, and when low CO concentrations persist in the environment for lengthy periods, which according to the principle of accumulation could also damage the human organism.

A special circuit controls the sensor's efficiency level and signals any possible fault.

Household CO Toxic Gas Detector type A CO922

Power supply: Power Demand: Main Alarm Relays: Sensor Toxic alarm threshold: Degree of protection: Degree of protection: Size: Packaging: Weight:

230/240 VAC 50/60 Hz. 1 W 10A 250V resistive Electrochemical Cell From 30 to 300ppm IP42 Wall mounted 115×150×50 120x168x60 335 grams about



The CO922 Detector has been designed and built according to European regulations to detect the presence of CO toxic gas flexibly.

When both the maximum CO admissible concentration threshold of 300ppm is exceeded, and when low CO concentrations persist in the environment for lengthy periods, which according to the principle of accumulation could also damage the human organism, it activates solenoid valves, sirens, and any other signal or alarm handling devices using built-in relays.

The detector is complete with a special circuit that controls the sensor's efficiency level, and signals any possible fault.

GS913 Gas Detector for campers or boats

Power supply: Power Demand Main Alarm Relays: Sensor Alarm threshold: Degree of protection: Installation: Size: Packaging: Weight:

12 VDC ± 10% 1 W 10A 250V resistive Semiconductor At 10% of L.E.L. I P 3 0 Wall mounted 112x50x36 122x60x45 100 grams about





The **GS913**, using the internal catalytic sensor, only detects the presence of Methane and LPG, according to the requirements, with trip sensitivity calibrated to 10% of Lower Explosion Limit, and can activate solenoid valves, sirens and any other signal or alarm handling device, by means of the built in a scheme the solenoid valves. built-in relay.

The internal jumper makes it possible to select between relay impulse or continuous functioning. The relay, free of voltage, allows multiple detectors to be

installed on a single solenoid valve ensuring control of multiple dangerous environments.

An electronic circuit controls the sensor's efficiency, and visually signals any possible fault. These features make the GS913 reliable for civil environment safety, campers or boats.

Safety gas EN 61010-29-1 on explosive gas EN 45544-1-3 on toxic gas EN 50270

Toxic and Explosive Gas Detector Control Unit for Industrial use GS100M

Power Supply: 230/240 VAC 50/60 Hz. 12 VDC ± 10% 7W during alarms 10A 250V resistive Battery power supply: Power Demand: The Pre alarm Relay: Main Alarm Relays: 10A 250V resistive Max number of probe: 1 Catalytic, Pellistor, Electrochemical, Semiconductor Explosion alarm threshold: 20 % of L.E.L 20 % of L.E.L. From 30 ppm to 300ppm 4 ÷ 20 mA 1 % FS Toxic alarm threshold: Input signal: Accuracy: Positive Safety: Selectable ON-OFF Fault output relay Functioning temperature: -10°C ÷ + 60°C Functioning humidity : Lower than 90% RH Degree of protection: TP44 Installation: Wall or panel mounted 144x144x116 170x170x120 Size: Packaging: Weight: 850 grams about



Through the connection of ${\bf 1}~$ remote probe, the ${\bf GS100M}$ control unit has been designed and built according to European regulations to detect the presence of toxic and/explosive Thanks to this and its other features, it is suitable for: civil use, industrial use and small underground car parks.

The GS100M control unit has three danger levels:

1st LEVEL, 1st Alarm. This was set to 8 % of L.E.L. (120ppm) for all probes 2nd LEVEL, 2nd Alarm. This was set at 13% of L.E.L. (200ppm) for

all probes. 3rd LEVEL, Main Alarm. This was set at 20 % of L.E.L. (300ppm)

for all probes Other technical features make this control unit extremely versa-

tile and reliable; for example, by using a series of micro-switches it is possible to:

Select or disable the probe when not installed or faulty; **Select** the type of gas to be detected (toxic or explosive); **Choose** the relay functioning mode (pulsed or continuous); Choose selection of the intrinsic safety



Toxic and Explosive Gas Detector Control Unit for Industrial use GS300M

Power Supply:	110/240 VAC 50/60 Hz.
Battery power supply:	12 VDC ± 10%
Power Demand:	11,3 W during alarms
The Pre alarm Relay:	10A 250V resistive
Main Alarm Relays:	10A 250V resistive
Max number of probe:	3
Catalytic, Pellistor, Electrochen	nical, Semiconductor
Explosion alarm threshold:	20 % of L.E.L.
Toxic alarm threshold:	From 30 ppm to 300ppm
Input signal:	4 ÷ 20 mA
Accuracy:	1 % FS
Positive Safety:	Selectable
Fault output relay	ON-OFF
Functioning temperature:	-10°C ÷ + 60°C
Functioning humidity :	Lower than 90% RH
Degree of protection:	IP44
Installation:	Wall or panel mounted
Size:	144x144x116
Packaging:	170x170x120
Weight:	500 grams about
)

Through the connection of ${\bf 3}$ remote probe, the ${\bf GS300M}$ control unit has been designed and built according to European regulations to detect the presence of toxic and/or explosive

gas. Thanks to this and its other features, it is suitable for: civil use, industrial use and small underground car parks.

The GS300M control unit has three danger levels: 1st LEVEL, 1st Alarm. This was set to 8 % of L.E.L. (120ppm) for all probe

2nd LEVEL, 2nd Alarm. This was set at 13% of L.E.L. (200ppm) for all probes

3rd LEVEL, Main Alarm. This was set at 20 % of L.E.L. (300ppm) for all probes .Other technical features make this control unit extremely

versatile and reliable; for example, by using a series of microswitches it is possible to:

Select or disable the probe when not installed or faulty;

Select the type of gas to be detected (toxic or explosive); Choose the relay functioning mode (pulsed or continuous);

Choose selection of the intrinsic safety

Toxic and Explosive Gas Detector Control Unit for Industrial use GS300-Mc

Power Supply: 110/240 VAC 50/60 Hz. Battery power supply: Power Demand: 12 VDC ± 10% The Pre alarm Relay: Main Alarm Relays: Max number of probe: Catalytic, Pellistor, Electrochemical, Semiconductor Explosion alarm threshold: 20 % of L.E.L. Toxic alarm threshold: ÷ 20 mA 4 Input signal: % FS Accuracy: 1 Multicolor Display LCD: Positive Safety: Showing current Selectable Fault output relay ON-OFF Functioning temperature: Functioning humidity : Degree of protection: -10°C ÷ + 60°C IP44 Installation: Size: Packaging: 170x170x120 Weight: 500 grams about

11,3 W during alarms 10A 250V resistive 10A 250V resistive From 30 ppm to 300ppm Lower than 90% RH Wall or panel mounted 144x144x116



Multicolor Display LCD: Showing the current status of the Unit

The GS300-Mc control unit has been designed and built according to European regulations to flexibly detect the presence of toxic and/or explosive gas and Oxigen, through the connection of 3 remote sensors.

Thanks to this and its other features GS300-Mc is suitable for civil use, industrial use and small underground car parks.

The **GS300-Mc** control unit has three danger levels:

1st LEVEL, 1st Alarm. This was set to 8 % of L.E.L. (120ppm) for all probes.

2nd LEVEL, 2nd Alarm. This was set at 13% of L.E.L. (200ppm) for all probes.

3rd LEVEL, Main Alarm. This was set at 20 % of L.E.L. (300ppm) for all probes.

Other technical features make this control unit extremely versatile and reliable; for example, by using a series of microswitches it is possible to:

Select or disable the probe when not installed or faulty; Select the type of gas to be detected (toxic or explosive); Choose the relay functioning mode (pulsed or continuous); Choose selection of the intrinsic safety

LCD display with easy to read color one for each operating status

1) Adjust: Green

- 2) Alarm: Red
- 3) Fault: Yellow

Toxic and Explosive Gas Detector Control Unit for Industrial use BX444-Mc

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Multicolor Display LCD: Showing the current status of the Unit

The BX444-Mc control unit has been designed and built according to European regulations to flexibly detect the presence of toxic and/or explosive gas and Oxigen, through the connection of 4 remote probes. Thanks to this and its other features BX444Mc is suitable for civil use, industrial use and small underground car parks. The BX444Mc control unit has three danger levels:

1st LEVEL, 1st Alarm. This was set to 8 % of L.E.L. (120ppm) for all probes. 2nd LEVEL, 2nd Alarm. This was set at 13% of L.E.L. (200ppm)

for all probes

3rd LEVEL, Main Alarm. This was set at 20 % of L.E.L. (300ppm) for all probes. Other technical features make this control unit extremely

versatile and reliable; for example, by using a series of microswitches it is possible to:

Select or disable the probe when not installed or faulty; Select the type of gas to be detected (toxic or explosive); Choose the relay functioning mode (pulsed or continuous); Choose selection of the intrinsic safety

LCD display with easy to read color one for each operating status

Adjust: Green
 Alarm: Red

3) Fault: Yellow



Modular Toxic and Explosive Gas Detector Control Unit BX150

(()	
	Power Supply: Battery power supply: Power Demand: The Pre alarm Relay: Main Alarm Relays: Max number of probe: Catalytic, Pellistor, Electrochemica	230/240 VAC 50/60 Hz. 12 VDC ± 10% 5W during alarms 10A 250V resistive 10A 250V resistive 1, Semiconductor	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Explosion alarm threshold: Toxic alarm threshold: Input signal: Accuracy: Positive Safety: Fault output relay Functioning temperature: Functioning humidity : Degree of protection: Installation: Size: Packaging: Weight:	At 20 % of L.E.L. From 30 ppm to 300ppm $4 \div 20 \text{ mA}$ 1 % FS Selectable ON-OFF $-10^{\circ}\text{C} \div + 60^{\circ}\text{C}$ Lower than 90% RH IP20 Panel mounted $112 \times 96 \times 44$ $170 \times 170 \times 120$ 455 grams about	

Through the connection of 1 remote probe, the BX150 control unit has been designed and built according to European regulations to detect the presence of *toxic and/* or explosive gas flexibly.

A microprocessor is used to create a complete surveillance and control system with maximum flexibility. Thanks to this and its other features, the BX150 is suitable for civil and industrial applications. The **BX150** control unit has two danger levels:

1st LEVEL, 1st Pre-Alarm. This was set at 13 % of L.E.L. for all probes. 2nd LEVEL, Main Alarm. This was set at 20% of L.E.L.

Other technical features make this control unit extremely versatile and reliable; for example, by using a series of Select or disable the probe when not installed or faulty; Select the type of gas to be detected (toxic or explosive);

Choose the relay functioning mode (pulsed or continuous); Choose selection of the intrinsic safety

Toxic and Explosive Gas Detector Control Unit for Industrial use BX180

Power Supply: Battery power supply: Power Demand: The Pre alarm Relay: Main Alarm Relays: Max number of probe: Catalytic, Pellistor, Electrochemica	110/240 VAC 50/60 Hz. 12 VDC ± 10% 5W during alarms 10A 250V resistive 10A 250V resistive 1 al, Semiconductor	
Explosion alarm threshold: Toxic alarm threshold: Input signal: Accuracy: Positive Safety: Fault output relay Functioning temperature: Functioning humidity : Degree of protection: Installation: Size: Packaging: Weight:	At 20 % of L.E.L. From 30 ppm to 300ppm $4 \div 20$ mA 1 % FS Selectable ON-OFF -10°C $\div + 60°C$ Lower than 90% RH IP20 Panel mounted $105 \times 90 \times 58$ 6 modules $100 \times 130 \times 95$ 250 grams about	

Through the connection of 1 remote probe, the BX180 control unit has been designed and built according to European regulations to detect the presence of *toxic and/* explosive gas flexibly.

A microprocessor is used to create a complete surveillance and control system with maximum flexibility. Thanks to this and its other features, the BX180 is suitable for civil and industrial applications. The **BX180 c**ontrol unit has two danger levels:

1st LEVEL, 1st Pre-Alarm. This was set at 13 % of L.E.L. for all probes. $\mathbf{2^{nd}}$ LEVEL, Main Alarm. This was set at 20% of L.E.L.

Other technical features make this control unit extremely versatile and reliable; for example, by using a series of micro-switches it is possible to: Select or disable the probe when not installed or faulty; Select the type of gas to be detected (toxic or explosive);

Choose the relay functioning mode (pulsed or continuous); Choose selection of the intrinsic safety

Toxic and Explosive Gas Detector Control Unit for Industrial use BX280

Power Supply:	110/240 VAC 50/60 Hz.	
Battery power supply:	$12 \text{ VDC} \pm 10\%$	-
Power Demand:	7W during alarms	1
The Pre alarm Relay:	10A 250V resistive	1
Main Alarm Relays:	10A 250V resistive	
Max number of probes:	2	
Catalytic, Pellistor, Electrochem	ical, Semiconductor	
Explosion alarm threshold:	At 20 % of L.E.L.	
Toxic alarm threshold:	From 30 ppm to 300ppm	
Input signal:	4 ÷ 20 mA	
Accuracy:	1 % FS	
Positive Safety:	Selectable	
Fault output relay	ON-OFF	
Functioning temperature:	-10°C ÷ + 60°C	
Functioning humidity :	Lower than 90% RH	
Degree of protection:	I P 2 0	
Installation:	Panel mounted	
Size:	105x90x58 6 modules	
Packaging:	100x130x95	
Weight:	250 grams about	

Through the connection of ${\bf 2}$ remote probe, the ${\bf BX280}$ control unit has been designed and built according to or explosive gas flexibly. A microprocessor is used to create a complete surveillance

and control system with maximum flexibility. Thanks to this and its other features, the BX280 is suitable for civil and industrial applications.

The BX280 control unit has two danger levels: 1st LEVEL, 1st Pre-Alarm. This was set at 13 % of L.E.L. for all probes.

2nd LEVEL, Main Alarm. This was set at 20% of L.E.L.

Other technical features make this control unit extremely

versatile and reliable; for example, by using a series of micro-switches it is possible to: Select or disable the probe when not installed or faulty; Select the type of gas to be detected (toxic or explosive); Choose the relay functioning mode (pulsed or continuous); Choose selection of the intrinsic safety

Gas and fire control unit for industrial use BX449F

Mains power supply:	230/240 Vac 50Hz ±10%
Secondary power supply:	12Vdc ±10%
Battery charger max. 2.2 Ah:	Controlled
Power demand @ 230 VAC:	11W max.
Power deman @ 12 VDC :	6W max.
Range of the contacts Relays gas/Fire:	10A 250V resistive
Pre alarm:	13% LEL or, 200 ppm CO
Explosion alarm threshold:	At 20 % of L.E.L.
Toxic alarm threshold:	From 30 ppm to300ppm
Number of GAS probes:	4 (1 per each zone)
Number of FIRE probes:	4 (6 per each zone)
Micro-switches On-Off probes:	1 per each zone
Positive Safety:	Selectable
Type of faults detected by fault circuit:	Included
Input signal:	4 ÷ 20 mA on 220 Ohm
Functioning temperature:	-10°C ÷ +60°C
Waiting, blinking period (warm-up):	About 2 minutes
Max. distance between probes and unit:	100 m
Omega-type 9 modules:	158*90*58
Degree of protection:	IP20
Packaging:	120x168x60
Weight:	560 grams about

Explosive Gas Detector for Industrial use CXM200/Q

Power Supply: Power Consumption:	230/240	V.ca 50/60 Hz. +/- 10% 2,4W
Pre alarm and Main Relay:		10A 250V resistive
Sensor:		Catalytic
Sensitivity Prealarm:		l 13% del L.I.E.
Sensitivity of main alarm:		al 20% del L.I.E.
Device Accuracy:		1% FS
Sensor's faults:		Included
Positive Safety		Selectable
Control autozero.:		Included
Warm-up time:		90 seconds
Audible and visual signal alarm	by:	LED and buzzer
Test buttons:		Built in
Reset buttons:		Built in
Functioning temperature:		-10°C to +50°C
Functioning humidity :		Lower than 90% RH
Enclosure:		ABS
Degree of protection:		IP65
Size:		135x90x45
Packaging:		168x120x60
Weight:		300 grams about



The new BX449F is born from the elegance and presuge that has always distinguished BEINAT S.r.l. and from the home fitness concept. The device has the capacity of controlling, through its connected probes, the presence of: "explosive gas, toxic gas, fire". Gas detection

The control unit has two danger levels:

LEVEL, pre-alarm. This is set at 13% of L.E.L. (200ppm) for all probes. To facilitate event readings, the control unit has a front panel with 4 LEDs indicating which probe is currently being monitored in rotation, and a display showing the gas concentration measured on each pass. Fire detection

To the **BX449F** you can connect up to 6 fire probes per each zone, either temperature or optical smoke detectors, through a balanced line. The control unit's microprocessor checks the detectors and connection line

efficiency, open or short-circuited. When the probes detect a fire, they will switch the proper relay

The **BX449F** is fitted with a TEST button to ease the system global check.

The Omega-type external structure, protection IP20, occupies 9 modules when installed on the panel gets the same protection of the panel itself.

In addition to the alarm signal light, it is fitted with an internal buzzer.



The **CXM200/Q** detector is a gas detection unit with IP55 protection degree. It allows to detect the presence of: Explosive gas: Methane, LPG, and according to requirements.

Gas detection The detector has two danger levels:

1st LEVEL, 1st Pre-Alarm. This is set at 13 % of L.E.L. 2nd LEVEL, Main Alarm. This is set at 20% of L.E.L. The concentration of leaks is shown as a percentage of the LEL through Display

Thanks to innovative technical plus what control's software, the detector is proper to civil employments and industrial applications, that united to other technical, it is able to select with some micro interrupters the followings functions:

To choose inserting or not the Positive Safety

To choose the relay functioning mode (to impulse or to continuous)

To select inserting or not the memory of alarm occurred. It allows a self-diagnosis and therefore an AUTOMATIC CALIBRATION so as

to constantly maintain the maximum detection accuracy. The self-calibration means the detector can adapt in harsh and variable

temperature environments, avoiding false alarms.



Gas control unit for parking and industrial plants, with ADDRESSED sensors BUS 485 BXI32

Main power supply Versione BXI32: Secondary power supply by battery Max 2,2 Ah: Battery charger Max 2,2 Ah: Power demand: ADDRESSED sensors: Catalytic, Electrochemical, Semiconductor	15 VDC 12,7 VDC Controlled 3 W in Alarm Max 32
Communication protocol;	ModBuss RTU
Variable pre-alarm threshold for each sensor from	3 to 18% LEL
Explosive alarm threshold: 20 % of LEL and 300p	pm
Display: Positive Safety: Pre-alarm output relay: Alarm output relay: Fault relay: External siren and buzzer silencing: Manual Alarm Signaling: Working temperature: Installation: Dimensions BXI32: Packaging dimensions: Weight: Degree of protection:	4 lines 20 cln Selectable ON-OFF In change ON-OFF Via software Built-in -10°C ÷ +60°C Panel mounted 58x90x58 9mod 197x122x67 400 grammes IP20

The experience and the knowledge acquired over the years within industrial sector and market together with the prestige that has always made BEINAT S.r.l. have allowed the design of a new Gas Control Unit **the...** "**BXI32**" which has the prerogative to control, through the connected addressed sensors to it from 1 to 32, the presence of gas: Toxic, Explosive, and Oxygen ecc. The control unit BXI32 has been designed and built to meet the current

requirements of the Market and in compliance with European Standard for checking gas presence in a versatile and innovative with **addressed sensors** through an **addressed network RS-485 MODBUS**

The gas concentration that each sensor detects at rotation is read directly on the display that specifies the origin. When one of the connected sensors exceeds the pre-alarm setpoint, the control unit emits a proportional sound signal, based on the amount of gas detected, and shows on the display the number of the sensor, the amount of gas detected and its origin; the alarm triggered is saved in a memory (Datalogger). Should it be necessary, the data stored can be printed (up to maximum 50 events). The control unit features two levels of hazard:

I LEVEL, pre-alarm. This data is variable. The technician can modify pre-alarm intervention for every sensor according to the type of plant to be controlled. The level can be selected from 3% to 16% of L.E.L. or from 45 to 240 ppm.

II LEVEL, general alarm. It is set to 20 % of L.E.L. or 300ppm The control unit is equipped with 1 general alarm relay with/without Positive Safety to enable further independent control of two solenoid valves.. Up to 2 relay expansion cards CARD-RLS4 can be inserted if nedessarv.

Optional cabinet for BXI32, composition:

 a) Rail DIN Omega for insertion BXI32, b) Switching Power Supply 110/230VAC 35W 12 VDC
 c) Control unit cable and power supply, d) Battery holder bracket
 Dimensions: 330x340x160, Packaging dimensions: 330x380x190, Weight: 3100 grammes. Degree of protection: IP65



Gas Detector Control Unit for Car Parks and Industrial Plants BX308xp

Main Power Supply unboxed version: Main Power Supply boxed version: Secondary power supply via battery: Battery Charger Max 2,2 Ah: Power Demand : 12/15 VDC 12,7 V. dc Controlled 19 W in Alarm Pre allarm Relay: Main alarm Relay: Siren relay: Fault relay: 10A Conventional probes: 8 Max Catalytic, Pellistor, Electrochemical, Semiconductor 1st Pre-Alarm Adjustable for every probe: 2nd Main alarm for every active area: Input signal: 4 Accuracy: 1 % FS Display: Opearting Range: Silent siren external and Buzzer integrated Manual external alarm Functioning temperature Installation BX308xp: Panel mounted Degree of protection **TP20** Size: Size box: 197x122x67 Weight: 390 grammi about

Installation BX308xp/box Degree of protection: Size : Packaging: Weight:

110/240 VAC 50/60 Hz. 10A 250V resistive 10A 250V resistive 10A 250V resistive 250V resistive

Ffrom 3% to 16% of LEL 20 % del LIE - 300ppm ÷ 20 mA over 150 Ohm Retroilluminated Selectable 20 or 100 of LEL

integrated -10°C ÷ + 60°C

158x90x58 9 modules

Wall mounted IP65 280x340x160 340x380x190 3100 grams about



BX308xp



it, the presence of gas: **toxic and/or explosive**. Cutting edge technologies such as the micro processor control enable Gas detection control unit to be used for industrial

applications and parking spaces. The control unit **BX308xp** has been designed and built in compliance with European Standard for checking gas presence in a versatile and innovative manner by coupling in conventional

way remote probes from 4 to 20 mA. Gas concentration measured by every probe sequentially is read directly on Display, specifying its origin.

When one of the coupled probes exceeds the pre-alarm threshold set, the control unit generates a proportional sound signal, depending on the amount of gas, and shows on the display the number of the probe, the amount of gas detected and its origin.

The control unit features two levels of hazard: 1st LEVEL, pre-alarm. This data is variable; the technician can modify the pre-alarm intervention for every probe according to the type of plant to be controlled. The level can be selected from 3% to 16% of L.I.E. or from 45 to

240 ppm

2nd LEVEL, general alarm. it is set to 20 % of L.I.E. or 300ppm The control unit is equipped with a general alarm relay with the option to insert the Positive Safety Switch.

The presence of a TEST push-button facilitates the total control of **BX308xp**, checking the performance of both the control unit and the probes coupled to it.

Gas Detector Control Unit for Car Parks and Industrial Plants BX316xp

Main Power Supply **unboxed version**: Main Power Supply **boxed version**: Secondary power supply via battery: Battery Charger **Max 2,2 Ah**: Power Demand : Pro allerm Poleci Pre allarm Relay: Main alarm Relay: Siren relay: Fault relay: Conventional probes: Catalytic, Pellistor, Electrochemical, Semiconductor

1st Pre-Alarm Adjustable for every probe: 2nd Main alarm for every active area: Input signal: Accuracy: Display: Opearting Range:

Silent siren external and Buzzer Manual external alarm Functioning temperature

Installation BX316xp: Degree of protection Size: Size box: Weight:

Installation BX316xpbox Degree of protection: Size: Packaging: Weight:

12/15 VDC 110/240 VAC 50/60 Hz. 12,7 V. dc Controlled 30 W in Alarm 10A 250V resistive 10A 250V resistive 250V 10A resistive 10A 250V resistive Max 16

Ffrom 3% to 16% of LEL 20 % del LIE - 300ppm 4 ÷ 20 mA over 150 Ohm 1 % FS Retroilluminated Selectable 20 or 100 of LEL

integrated integrated -10°C \div + 60°C

Panel mounted IP20 158x90x58 9 modules 197x122x67 390 grammi about

Wall mounted IP65 280x340x160 340x380x190 3100 grams about



BX316xp

BX316xp/box

The experience and the knowledge acquired over the years within industrial sector and market together with the prestige that has always made BEINAT S.r.l. stand out from its competitors comes to the new Gas Control Unit **"BX316xp"** aimed at checking, by means of probes coupled to it, the presence of gas: **toxic and/or explosive.**

Cutting-edge technologies enable the Gas detection control unit to be installed in industrial environments and underground parking spaces. The control unit **BX316xp** has been designed and built to meet

the current requirements of the Market and in compliance with European Standard for checking gas presence in a versatile and

Up to16 remote probes from 4 to 20 mA can be connected in conventional mode for a single zone or divided into two zoness: 8 probes for every zone.

Gas concentration measured by every probe sequentially is shown directly on display, with a description of its origin. When one of the coupled probes exceeds the pre-alarm setpoint,

the control unit generates a proportional sound signal, depending on the concentration of gas measured, and shows on the display the number of the probe, the amount of gas measured and its origin; the alarm triggered is saved in a memory (Datalogger). Should it be necessary, the data stored can be printed (up to maximum 50 events).

The control unit features two levels of hazard: **1st LEVEL, pre-alarm**. This data is variable. The technician can modify pre-alarm intervention for every probe according to the type of plant to be controlled.

The level can be selected from 3% to 16% of L.E.L. or from 45 to 240 $\rm ppm$

2nd LEVEL, general alarm. it is set to 20 % of L.E.L. or 300ppm

The control unit is equipped with two general alarm relays with/ without Positive Safety Switch to enable further independent control of two solenoid valves. Finally, the Control Unit allows the user to control the actual operation of the probes coupled.

Safety gas EN 61010-29-1 on explosive gas EN 45544-1-3 on toxic gas EN 50270



SG500 EXPLOSIVE Gas Probe and Control Unit for Industrial use

- Power Supply Power Demand Sensor Input Signal Data transmission Functioning Temperature Degree of Protection Compatible control units: Size Packaging: Weight
- 12÷24 VDC ± 10% 1W max @13,8V Catalytic 4 ÷ 20 mA Not present -10°C to +50°C IP30 whole range 112x50x37 122x60x45



The **SG500** probe is a Catalytic gas detection unit with **IP30** protection that, together with one of BEINAT's industrial type Control Units, detects the presence of EXPLOSIVE GASES

to the 4÷20mA standard.

SG544 EXPLOSIVE Gas Probe and Control Unit for Industrial use

120 grams about





The SG544 probe is a Catalytic gas detection unit with IP44 protection that, together with one of BEINAT's industrial type Control Units, detects the presence of EXPLOSIVE GASES such as: Methane, LPG, and various other types of gases according to requirements. The probe sends a signal to the control unit proportional to the gas concentration in the environment, according to a trip sensitivity calibrated to 20 % of L.E.L. The sensor used is catalytic. This makes the SG44 false alarm free and transmits the signal

to the Control Unit with absolute reliability conforming to the 4÷20mA standard.

SGM595 EXPLOSIVE Gas Probe conventional for Industrial use

Power Supply:	12÷24 VDC dc ± 10%
Power Demand:	1W max @13,8V
Sensor:	Catalytic
Indication: Green LED No	ormal operation,
Red LED State of Alarm,	LED Yellow Fault
Operative Range: 0÷20	0% LEL or 0÷100% del LEL
Input Signal:	4 ÷ 20 mA
Data transmission:	Not present
Service Port:	Present
Functioning Temperature:	-10°C to +50°C
Functioning humidity :	Lower than 90% RH
Installation	Wall mounted
Degree of Protection:	IP55
Compatible control units:	whole range
Case and Size:	ABS 78x114x58
Packaging:	197x122x67
Weight:	260 grams about

The new SGM595 is born from the elegance and prestige that has always distinguished **BEINAT S.r.I.** and from the industrial fitness concept. The probe is a Catalytic gas detection unit with IP55 protection that, together with one of BEINAT's with IPS5 protection that, together with one of BEINAI's industrial type Control Units, detects the presence of **EXPLOSIVE GASES** such as: Methane, LPG, Hydrogen. The probe is managed by a microprocessor which not only supplies an alarm signal to the control unit connected to it, but also allows execution of a self-diagnosis and therefore an **AUTOMATIC CALIBRATION**, in order to always have the maximum detection accuracy. The probe has a $0 \div 20$ % L.E.L. linear output, conforming to the $4 \div 20$ mA standard. The more important news of this probe is the capability to change the sensing element at the end of the life-cycle change the sensing element at the end of the life-cycle directly from a technician.

SGM595/A EXPLOSIVE Gas Probe conventional for Industrial use

Power Supply: 12÷24 VDC dc ± 10% Power Demand: 1W max @13,8V Sensor: Catalytic Green LED Normal operation, Indication:

 Red LED State of Alarm, LED Yellow Fault

 Operative Range:
 0÷20% LEL or 0÷100% del LEL

 Input Signal:
 4 ÷ 20 mA

 Input Signal: Data transmission: Not present Service Port: Present Functioning Temperature: Functioning humidity: -10°C to +50°C Lower than 90% RH Installation: Wall mounted Degree of Protection: IP65 Compatible control units: whole range Case and Size: Aluminum100x100x58 Packaging: 197x122x67 500 grams about Weiaht:

The new SGM595/A is born from the elegance and prestige that has always distinguished BEINAT S.r.l. and from the industrial fitness concept.

The probe is a Catalytic gas detection unit with IP55 protection that, together with one of BEINAT's industrial type

Control Units, detects the presence of **EXPLOSIVE GASES** such as: Methane, LPG, Hydrogen. The probe is managed by a microprocessor which not only supplies an alarm signal to the control unit connected to it, but also allows execution of a self-diagnosis and therefore an AUTOMATIC CALIBRATION, in order to always have the

maximum detection accuracy. The probe has a 0 \div 20 % L.E.L. linear output, conforming to the 4 \div 20mA standard.

The more important news of this probe is the capability to change the sensing element at the end of the life-cycle directly from a technician.

SGM600 EXPLOSIVE Con ventional Sensor Gas for Industrial use

The SGM600 Conventional sensor is a Catalytic gas detection unit Differentiated from SGM595/A, due to the difference in working temperature. In fact the SGM600 works with a working temperature up to 60°C



SGM533 standalone EXPLOSIVE gas probe for Industrial use

12÷24 V. dc ± 10%
1,5 W max @13,8V
10A SELV
10A SELV
ormal operation,
ED Yellow Fault
Catalytic
4 ÷ 20 mA
Not present
Present
At 13% of LEL with relay
At 20% of LEL with relay
90 seconds
-10°C to +50°C
IP55
whole range
ABS - 78x114x58
197x122x67
300 grams about

The new **SGM533** is born from the elegance and prestige that has always distinguished **BEINAT** S.r.I. and from theindustrial fitness concept. The probe is a Catalytic gas detection unit with IP55 protection that, together with one of BEINAT's industrial type Control Units, detects the presence of **EXPLOSIVE GASES** such as: Methane, LPG, Hydrogen. The probe is managed by a microprocessor which not only supplies an alarm signal to the control unit connected to it, but also allows execution of a self-diagnosis and therefore an **AUTOMATIC CALIBRATION**, in order to always have the maximum detection accuracy. The probe has a 0 ÷ 20 % L.E.L. linear output, conforming to the 4 ÷ 20mA standard.

ALARM THRESHOLDS

1st LEVEL, pre-alarm. Set at 13 % of L.E.L. The pre-alarm drives 1 relay

2nd LÉVEL, main alarm. Set at 20 % of L.E.L. The alarm drives 1 relay

The more important news of this probe is the capability to change the sensing element at the end of the life-cycle directly from a technician

SG800 standalone Special Gas probe for Industrial use

Power Supply:	12÷24 V. dc ± 10%	
Power Demand:	1,5 W max @13,8V	
The Pre alarm Relay:	10A SELV	
Main Alarm Relays:	10A SELV	· ·
Indication: Green LED No	rmal operation.	
Red LED State of Alarm, L	ED Yellow Fault	
Sensor:	Catalytic	1
Input Signal:	4 ÷ 20 mA	
Data transmission:	Not present	
Service Port:	Present	
1st Alarm Threshold:	At 13% of LEL	
2nd Alarm Threshold:	At 20% of LEL	
Test Phase Duration:	90 seconds	
Functioning Temperature:	-10°C to +50°C	
Degree of Protection:	IP65	
Compatible control units:	whole range	
Case and Size:	Aluminium	
Size:	100x100x60	
Packaging:	197x122x67	
Weight:	550 grams about	
		~ /



The new **SG800** is born from the elegance and prestige that has always distinguished BEINAT S.r.l. and from the industrial fitness concept.

The device has the capacity of controlling, the presence of various types of gases **explosive**, **toxic**. The probe is managed by a microprocessor which not only supplies an alarm signal to the control unit connected to it, but also allows execution of a self-diagnosis and therefore an **AUTOMATIC CALIBRATION**, in order to always have the maximum detection accuracy. The probe has a $0 \div 20$ % L.E.L. linear output, conforming to the $4 \div 20$ mA standard.

ALARM THRESHOLDS: 1st LEVEL, pre-alarm. Set at 13 % of L.E.L. The pre-alarm drives 1 relay 2nd LEVEL, main alarm. Set at 20 % of L.E.L. The alarm drives

2nd LEVEL, main alarm. Set at 20 % of L.E.L. The alarm drives 1 relay

The more important news of this probe is the capability to change the sensing element at the end of the life-cycle directly from a technician

Code	Type of Gas	Sensor	Range	Temp.
SG800met	Methane	Catalytic	LEL 0-100%	-10+50°C
SG800gpl	LPG	Catalytic	LEL 0-100%	-10+50°C
SG800idr	Hydrogen	Catalytic	LEL 0-100%	-10+50°C
SG800ame	Ammonia Explosiv	Catalytic	LEL 0-100%	-10+50°C
SG800amt	Ammonia Toxic	Catalytic	LEL 0-100%	-10+50°C
SG800clo	Chlorine	Electrochemical	10 ppm	-10+50°C
SG800h2s	Hydrogen Sulphite	Electrochemical	100 ppm	-10+50°C
SG800no2	Nitrogen dioxide	Electrochemical	100 ppm	-10+50°C
SG80002	Oxygen	Optical fluorescenze	DeficienExces	s in %
SG800ace	Acetylene	Catalytic	LEL 0-100%	-10+50°C
SG800vbe	Gasoline	Catalytic	LEL 0-100%	-10+50°C
SG800alc	Alcohol	Catalytic	LEL 0-100%	-10+50°C
SG800ara	White Spirit	Catalytic	LEL 0-100%	-10+50°C
SG800eth	Ethanol	Catalytic	LEL 0-100%	-10+50°C
SG800act	Acetone	Catalytic	LEL 0-100%	-10+50°C
SG800hex	Hexane	Catalytic	LEL 0-100%	-10+50°C
SG800eta	Ethyl Acetate	Catalytic	LEL 0-100%	-10+50°C
SG800fre1	Freon R134A	Semiconductor	ppm 0-5000	-20+60°C
SG800fre2	Freon R404	Semiconductor	ppm 0-5000	-20+60°C
SG800fre3	Freon R407	Semiconductor	ppm 0-5000	-20+60°C
SG800fre4	Freon R410	Semiconductor	ppm 0-5000	-20+60°C



SG580 EXPLOSIVE Gas Probe and Control Unit for Industrial use NO ATEX

())		
Power Supply:	12÷24 VDC dc ± 10%		
Power Demand:	1W max @13,8V		
Sensor:	Catalytic		
Indication: Green LED Norm	al operation, Red LED		
State of Alarm, LED Yellow	Fault Operative Range:		
0÷20% LEL or 0÷100% del LE	EL · ·		
Input Signal:	4 ÷ 20 mA		
Data transmission:	Not present		
Service Port:	Present		
Functioning Temperature:	-10°C to +50°C		
Functioning humidity :	Lower than 90% RH		
Installation	Wall mounted		
Degree of Protection:	IP66		
Compatible control units:	whole range		
Case and Size:	Aluminum 100 mm		
Packaging:	197x122x67		
Weight:	670 grams about		
)		



The new SG580 is born from the elegance and prestige that has always distinguished BEINAT S.r.l. and from the industrial fitness concept.

The device has the capacity of controlling, the presence of various types of gases explosive , toxic.

The probe is managed by a microprocessor which not only supplies an alarm signal to the control unit connected to it, but also allows execution of a self-diagnosis and therefore an **AUTOMATIC CALIBRATION**, in order to always have the maximum detection accuracy. The probe has a $0 \div 20$ % L.E.L. linear output, conforming to the 4 \div 20mA standard.

The more important news of this probe is the capability to change the sensing element at the end of the life-cycle directly from a technician without need to send back the probe for assistance.

SG800/^{Duct} standalone EXPLOSIVE gas probe for Industrial

Power Supply:	12÷24 V. dc ± 10%	
Power Demand:	1,5 W max @13,8V	
The Pre alarm Relay:	10A SELV	
Main Alarm Relays:	10A SELV	
Indication: Green LED Nor	mal operation, Red LED	
State of Alarm, LED Yellov	w Fault	
Sensor:	Catalytic	
Input Signal:	4 ÷ 20 mA	
Data transmission:	Not present	
Service Port:	Present	
1st Alarm Threshold:	At 13% of LEL	
2nd Alarm Threshold:	At 20% of LEL	
Test Phase Duration:	90 seconds	
Functioning Temperature:	-10°C to +50°C	
Case degree of Protection:	IP65	
Compatible control units:	whole range	
Case and Size:	Aluminum 100x100x60	
Rod Size:	200x20 mm	
Flange Size:	60 mm	
Packaging:	160x120x350	
Weight:	760 grams about	

The new SG800/^{duc} is born from the elegance and prestige that has always distinguished BEINAT S.r.l. and from the industrial fitness concept. The device has the capacity of controlling, the presence of various types of gases **explosive**, **toxic**. The probe is managed by a microprocessor which not only supplies an alarm signal to the control unit connected to it, but also allows execution of a self-diagnosis and therefore an **AUTOMATIC CALIBRATION**, in order to always have the maximum detection accuracy. The probe has a $0 \div 20$ % L.E.L. linear output, conforming to the 4 \div 20mA standard. ALARM THRESHOLDS: 1st LEVEL, pre-alarm. Set at 13 % of L.E.L. The pre-alarm drives 1 relay 2nd LEVEL, main alarm. Set at 20 % of L.E.L. The alarm drives 1

relay

Sonda Convenzionale Autonoma per OSSIGENO ad uso Terziario SG-0,100

Power Supply: Power Demand:
Main Aldrin Relays.
Sensor:
Detections:
18% ÷ 20,8% di O ₂ , ~ da
Display:
Segnale di uscita:
Presa di collaudo per:
Soglia di allarme:
Degree of Protection:
Compatible control units:
Case and Size:
Packaging:
Weight:

1,5 W max @13,8V 10A SELV Optical fluoresence 20,8% ÷ 22,5% di O2

 $12 \div 24$ V. dc ± 10%

Percentage O_2 4 ÷ 20 mA su 220 Ohm TS1007 Depletion o Exces di O₂ IP55 whole range ABS-78x114x58 197x122x67 270 grams about

HCF100 standalone Toxic Gas probe for Industrial use

Power Supply:	12÷24 V. dc ± 10%
Power Demand:	1,5 W max @13,8V
Main Alarm Relays:	10A SELV
Sensor:	Semiconductor
Alarm Threshold:	At 300ppm
Input Signal:	4 ÷ 20 mA
Data transmission:	Not present
Service Port:	Present
Test Phase Duration:	90 seconds
Functioning Temperature:	-10°C to +50°C
Degree of Protection:	IP55
Compatible control units:	whole range
Case and Size:	ABS-78x114x58
Packaging:	197x122x67
Weight:	270 grams about



CE

Always attentive to the needs of a highly technological and demanding modern market, BEINAT S.r.l. designed an OXYGEN gas detection probe.

The new SG-0,100 autonomous probe has the prerogative of being able to control the presence of: Oxygen through the fluorescence optic sensor.

The probe is managed by a microcontroller which, in addition to supplying an alarm signal to the control panel to which it is connected, it makes a self-diagnosi, and therefore an automatic calibration. The automatic calibration allows the probe to adapt in difficult and variable temperature environments, avoiding false alarms due to anomalous events.

In addition, the percentage of oxygen in the environment is controlled by the display.

The transmission of the monitored gas detection is incorporated in the probe: Analog output signal 4 ÷ 20 mA.

Furthermore, in this probe it is possible to:

1) Select the positive safety of the relay 1) Select the alarm intervention threshold for: Excess or Oxygen

Deficiency

The probe HCF100 is a Semiconductor gas sensing unit with protection grade IP55, that connected to a BEINAT'S industrial type control units.

Allow to individuate presence of: TOXIC GASES such as: Refrigerant FREON.

The probe is managed by a microprocessor that besides to furnish the central to which is connected with an alarm signal, allows to make an auto-diagnosis and then an **AUTOMATIC CALIBRATION**, to have constantly during time maximum sensing precision. The auto-calibration permit the probe to adapt in difficult ambience and at variable temperature, avoiding false alarms due to anomalous events.

In the probe is present a linear exit $0 \div 300$ ppm, functioning with standard 4 ÷ 20 mA.

Compatible control units GS100M, GS300-Mc, BX150, BX180, BX280 BX444-Mc, BX449F, BX308xp, BX316xp



II 2 GD Ex d tD IIC T6 X -10 <T amb < +60°C

ATEX SG895 Flammable Gas Probe



The new ATEX **SG895** assembled probe is born from the elegance and prestige that has always distinguished **BEINAT S.r.l.** and from the home fitness concept. The device has the capacity of controlling, through its Catalytic technology sensors, the presence of: **Explosive Gases, and TOXIC GAS**.

The probe is managed by a microprocessor which not only supplies an alarm signal to the Control Unit connected to it, but also executes a self-diagnosis and therefore an **AUTOMATIC CALIBRATION** in order to obtain the maximum detection accuracy at all times. The self-calibration means the probe adapts in harsh and variable temperature environments, avoiding false alarms due to anomalous events.

The probe has a 4-20mA linear output, and can therefore be connected to one of the industrial control units manufactured by BEINAT S.r.I.

Power supply:	12÷24 VDC ± 10%
Power demand:	100 mA Max @ 13.8V
Indication: Green LED Normal operation, Red LED	State of Alarm, LED Yellow Fault
Sensor:	Catalytic/Electrochemical cell
Sensitive element working range for explosive gas:	100% of L.E.L.
Sensitive element working range for toxic gas:	1000 ppm
Operative Range selectable:	0÷20% or 0÷100% del LEL
Detected gases:	See table below
Detector accuracy:	1% FS
Auto zero procedure:	Included in the software
Analogic output signa:	4÷20 mA standard tolerance
Data transmission:	Not present
Service Port:	Present
Functioning temperature refered explsive gas:	-10+70°C
Functioning temperature refered toxic gas:	-20+50°C
Functioning humidity:	0-90% non condensed
Max. distance between probe and unit:	100 m
Case:	Die-cast aluminium
Size:	100 mm
Degree of Protection:	66/67
Electromagnetic Reference Norms:	EN 50270
Certificate Number:	EUM1 10 ATEX 0169
Reference: EN 60079-0 EN 60079-1 EN 61241-0	EN 61241-1
Packaging:	178x130x85
Weight:	670 grams about
Compatible control units:	whole range

Code	Type of Gas	Sensor	Range	Temp.
SG895met	Methane	Pellistor	LEL 0-100%	-10+50°C
SG895gpl	LPG	Pellistor	LEL 0-100%	-10+50°C
56895co	CO	Cella Elet chim	0-300 ppm	-10+50%
30093C0	Uuduoson	Dellieter		-10+50 C
SG895lur	Hydrogen	Pellistor	LEL 0-100%	-10+50°C
SG895ame	Ammonia Explosive	Pellistor	LEL 0-100%	-10+50°C
SG895amt	Ammonia Toxic	Electrochemical	LEL 0-100%	-10+50°C
SG895clo	Chlorine	Electrochemical	10 ppm	-10+50°C
SG895h2s	Hydrogen Sulphite	Electrochemical	100 ppm	-10+50°C
SG895no2	Nitrogen dioxide	Electrochemical	100 ppm	-10+50°C
SG895ace	Acetylene	Pellistor	LEL 0-100%	-10+50°C
SG895vbe	Gasoline	Pellistor	LEL 0-100%	-10+50°C
SG895alc	Alcohol	Pellistor	LEL 0-100%	-10+50°C
SG895ara	White Spirit	Pellistor	LEL 0-100%	-10+50°C
SG895eth	Ethanol	Pellistor	LEL 0-100%	-10+50°C
SG895act	Acetone	Pellistor	LEL 0-100%	-10+50°C
SG895hex	Hexane	Pellistor	LEL 0-100%	-10+50°C
SG895eta	Ethyl Acetate	Pellistor	LEL 0-100%	-10+50°C



CO100r TOXIC Gas Probe and Control Unit for Industrial use

12÷24 V. dc ± 10% 1 W max @13,8V 10A SELV 10A SELV Electrochemical Cell, 0 to 1000ppm From 30 to 300ppm 4 ÷ 20 mA Not present **Present** 90 seconds -20°C to +50°C Case IP55 whole range **ABS-78×114×58** 197×122×67 300 grams about



A . A

The standalone **C0100r** probe has been developed and manufactured , in order to enable versatile verification of the presence of Carbon Monoxide. The probe is fitted with an Electrochemical Cell sensor and is managed by a microprocessor which not only supplies an alarm signal to the units connected to it, but also can directly drives any kind of externaldevices using its built in relays. This probe is useful when both the maximum CO admissible concentration threshold set to 300 ppm is exceeded, and when low CO concentrations persist in the environment for lengthy periods, and which according to the principle of accumulation, could also damage the human organism. There are two outputs in the probe: The second output is connected when necessary to detect 4 to 20 mA linearly, but with bottom scale at 300 ppm.

CO100/Ar TOXIC Gas Probe and Control Unit for Industrial use

(THE
Power Supply:	12÷24 V. dc ± 10%	~	manı
Power Demand:	1 W max @13,8V		prese
The Pre alarm Relay:	10A SELV	(E	Electi
Main Alarm Fault:	10A SELV		which
Sensor and Protection:	Electrochemical Cell,		but a
Range of Measurement:	0 to 1000ppm		in rei
Toxic alarm threshold:	From 30 to 300ppm		CONCE
Output Signal:	4 ÷ 20 mA		000
Data transmission:	Not present		dama
Service Port:	Present		
Test Phase Duration:	90 seconds		lines
Functioning Temperature:	-20°C to +50°C		inieai
Degree of Protection:	Case IP65		
Compatible control units:	whole range		
Case and size:	Aluninium -100x100x60		
Packaging:	197x122x67		
Weight:	300 grams about		

The standalone **CO100Ar** probe has been developed and manufactured , in order to enable versatile verification of the presence of Carbon Monoxide. The probe is fitted with an Electrochemical Cell sensor and is managed by a microprocessor which not only supplies an alarm signal to the units connected to it, but also can directly drives any kind of externaldevices using its built in relays. This probe is useful when both the maximum CO admissible concentration threshold set to 300 ppm is exceeded, and when low CO concentrations persist in the environment for lengthy periods, and which according to the principle of accumulation, could also damage the human organism. There are two outputs in the probe: The second output is connected when necessary to detect 4 to 20 mA linearly, but with bottom scale at 300 ppm.

CO200/^{Duct} TOXIC Gas Probe and Control Unit for Industrial use

Power Supply: Power Demand : The Pre alarm Relay: Main Alarm Fault: Sensor and Protection: Range of Measurement: Toxic alarm threshold: Output Signal: Data transmission: Service Port: Test Phase Duration: Functioning Temperature: Degree of Protection: Compatible control units: Case and size: Rod Size: Flange Size: Packaging: Weight:

12÷24 V. dc ± 10% 1 W max @13,8V 10A SELV 10A SELV Electrochemical Cell, 0 to 1000ppm From 30 to 300ppm 4 ÷ 20 mA Not present Present 90 seconds -20°C to +50°C Case IP65 whole range Aluninium -100x100x60 200x20 mm 60 mm 197x122x67 300 grams about



The standalone **CO200**/^{duct} probe has been developed and manufactured , in order to enable versatile verification of the presence of Carbon Monoxide. The probe is fitted with an Electrochemical Cell sensor and is managed by a microprocessor which not only supplies an alarm signal to the units connected to it, but also can directly drives any kind of externaldevices using its built in relays. This probe is useful when both the maximum CO admissible concentrations hershold set to 300 ppm is exceeded, and when low CO concentrations persist in the environment for lengthy periods, and which according to the principle of accumulation, could also damage the human organism. There are two outputs in the probe: The second output is connected when necessary to detect 4 to 20 mA linearly, but with bottom scale at 300 ppm.



Conventional stand-alone EXPLOSIVE gas probe for industrial use SGF100



Since 1972 we write a story of passion for our work and with a unique style by seeking safety against gas leaks, in a highly technological and modern market. The **BEINAT S.r.I**. has designed a gas detection sensor for a civils and industrials installations In fact, the new stand-alone sensorss of **SGF series**, have the prerogative to control using variable technology sensors depending on the type of gas the presence of: **Gas Explosives and / or toxic (**see table below)

The probe is managed by a microprocessor which in addition to providing an alarm signal to the control unit to which is connected, allows to do a selfdiagnosis, and then an **Automatic Calibration**, in order to have steadily over time the maximum detection accuracy

The transmission of the monitored gas detection occurs via Analog output signal $4 \div 20$ mA.

The sensors are designed for:

1) Select the working range to 20% LEL or 100% LEL

2) Select the positive safety relay

Test: to perform a precise and self-certified test, use the TS1007 (see page 23) instrument, which also serves to carry out the annual check

12÷24 VDC ± 10% Power supply: Power demand: Relay switching alarm: 110 mA Max @ 13,8VDC 1 A SELV Selection of the positive safety: Through switch Indication: Green LED Normal operation, Red LED State of Alarm, LED Yellow Fault Detection on demand: Gas: See below Integrated sensor: According to the type of GAS Operating range of the sensing element: Operating range selectable by switch: According to the type of sensor From 0 \div 20%, or 0 \div 100% of LEL Analog output signal: 4 ÷ 20 mA to 220 Ohm standard tolerance Data transmission: Not present Service Port: Accuracy of the detector: Present +/- 1 % FS Auto zero procedure: Included in the software algorithms Response Time: < 10' Functioning humidity: 0-90% not condensed from -10°C to + 50°C on the ceiling or on the wall Functioning temperature: Mounting: Anti-extrusion protection: included Probe's body material: External degree of protection: Self-extinguishing polypropylene VDE0471 IP64 Case and Size: ABS 90 mm 197x122x67 Packaging: Weight: 90 grams about **Compatible control units** GS100M, GS300-Mc, BX150, BX180, BX280 BX444-Mc, BX449F, BX308xp, BX316xp



Addressable stand-alone EXPLOSIVE gas sensors for industrial use



Sicurezza gas en 50194 gas esplosivi en 50291 gas tossici en 50270



Addressable stand-alone EXPLOSIVE gas sensors for industrial use SGF100



Since 1972 we write a story of passion for our work and with a unique style by seeking safety against gas leaks, in a highly technological and modern market. The **BEINAT S.r.I.** has designed a gas detection sensor for a civils and industrials installations. In fact, the new stand-alone sensorss of **SGF series**, have the prerogative to control using variable technology sensors depending on the type of gas the presence of: **Gas Explosives and / or toxic (**see table below)

The probe is managed by a microprocessor which in addition to providing an alarm signal to the control unit to which is connected, allows to do a selfdiagnosis, and then an Automatic Calibration, in order to have steadily over time the maximum detection accuracy

The transmission of the monitored gas detection occurs via a serial RS485 Modbus RTU protocol.

The sensors are designed for:

Select the working range to 20% LEL or 100% LEL
 Select the positive safety relay

Test: to perform a precise and self-certified test, use the TS1007 (see page 23) instrument, which also serves to carry out the annual check

Power supply: Power demand: Relay switching alarm: Selection of the positive safety: Detection on demand: Gas: Integrated sensor: Operating range of the sensing element: Operating range selectable by switch:

Data transmission: Service Port:

Accuracy of the detector: Auto zero procedure: Response Time: Functioning humidity: Functioning temperature: Service Port: Mountina: Anti-extrusion protection: Probe's body material: External degree of protection: Case and Size: Packaging: Weight:

Compatible control units

12÷24 VDC ± 10% 110 mA Max @ 13,8VDC 1 A SELV Through switch See below According to the type of GAS According to the type of sensor From 0 ÷ 20%, or 0 ÷ 100% of LEL

Serial RS485 with Modbus RTU

90 grams about

BXI32

Present +/- 1 % FS Included in the software algorithms < 10″ 0-90% not condensed from -10°C to + 50°C Present on the ceiling or on the wall included Self-extinguishing polypropylene VDE0471 **IP64** ABS 90 mm 197x122x67

ASI012 Technical Specifications

Indispensable power supply, for an ADDRESSED SYSTEM These Power Supplies are built in a highly efficient compact design to provide a constant 12 VDC power supply. to the probes connected

Power supply for 8 sensors 110/230 VAC - 12 VDC - 2 Ah Note: Each sensor power demand 200 mA





ADDRESSED GAS sensors Residential and Tertiary use SGI600

Power supply: Power on demand: Signals:	12÷24 VDC ± 10% 1W max @13,8V Diode LEDS:
green regular function, yello	w fault light, red light alarm
Detection:	See below
Sensor:	Catalytic
Replacement Sensor:	Autonomously
Operating range select.:	0÷20% or 0÷100%
Data transmission signal:	RS485 prot. ModBus RTU
Autozero procedure:	Included in the software
Pack and Degree protection:	ABS IP55
Service Port:	Present
Operating temperature:	from -10°C to + 50°C
Operating humidity:	0-90% not condensed
Dimensions:	ABS 78x114x58
Packaging dimensions:	197x122x67
Weight:	250 grammes
Compatible unit:	BXI32

Since 1972 we write a story of passion for our work and with a unique style by seeking safety against gas leaks, in a highly technological and modern market.

The **BEINAT S.r.l.** has designed a gas detection sensor for a residential and tertiary installations

The new SGI600 series addressed sensors has the ability to control catalytic technology through the presence of: See Table.

The probe is managed by a microprocessor which in addition to providing an alarm signal to the control unit to which is connected, allows to do a selfdiagnosis, and then an **Automatic Calibration**, in order to have steadily over time the maximum detection accuracy.

The transmission of the monitored gas detection occurs via a ${\bf serial}\ {\bf data}\ {\bf transmission}\ {\bf signal}\ {\bf RS485}.$

Also in this sensor it is possible to:

To select the working Range to 20% or 100% of lel **Test:** to perform a precise and self-certified test, use the **TS1007** (see

page 20) instrument, which also serves to carry out the annual check.

Code	Gas Type	Sensor	Working range	Temp.
SGI600	Methane	Catalytic	LEL 0-100%	-10+50°C
SGI601	LPG	Catalytic	LEL 0-100%	-10+50°C
SGI602	Hydrogen	Catalytic	LEL 0-100%	-10+50°C
SGI615	Freon R134A	Semiconductor	ppm 0-5000	-20+60°C
SGI616	Freon R404	Semiconductor	ppm 0-5000	-20+60°C
SGI617	Freon R407	Semiconductor	ppm 0-5000	-20+60°C
SGI628	Freon R410	Semiconductor	ppm 0-5000	-20+60°C



ADDRESSED GAS sensors Residential and Tertiary use SGI650

Power supply:	12÷24 VDC ± 10%
Power on demand:	1W max @13,8V
Signals:	Diode LEDS:
green regular function, yello	w fault light, red light alarm
Detection:	See below
Sensor:	Second gas type
Replacement Sensor:	Autonomously
Operating range select .:	0÷20% or 0÷100%
Data transmission signal:	RS485 prot. ModBus RTU
Autozero procedure:	Included in the software
Pack and Degree protection:	Alluminio IP66
Service Port:	Present
Operating temperature:	from -10°C to + 50°C
Operating humidity:	0-90% not condensed
Dimensions:	100x100x58
Packaging dimensions:	197x122x67
Weight:	550 grammes
Compatible unit:	BXI32

Since 1972 we write a story of passion for our work and with a unique style by seeking safety against gas leaks, in a highly technological and modern market.

The $\ensuremath{\textbf{BEINAT}}$ S.r.l. has designed a gas detection sensor for a residential and tertiary installations

The new SGI650 series addressed sensors has the ability to control catalytic technology through the presence of: See Table.

The probe is managed by a microprocessor which in addition to providing an alarm signal to the control unit to which is connected, allows to do a selfdiagnosis, and then an **Automatic Calibration**, in order to have steadily over time the maximum detection accuracy.

The transmission of the monitored gas detection occurs via a **serial data transmission signal RS485**.

Also in this sensor it is possible to: To select the working Range to 20% or 100% of lel

Test: to perform a precise and self-certified test, use the **TS1007** (see page 20) instrument, which also serves to carry out the annual check.

Code	Gas Type	Sensor	Working range	Temp.
SGI650	Methane	Catalytic	LEL 0-100%	-10+50°C
SGI651	LPG	Catalytic	LEL 0-100%	-10+50°C
SGI652	Hvdrogen	Catalytic	LEL 0-100%	-10+50°C
SGI653	Explosive Ammonia	Catalytic	LEL 0-100%	-10+50°C
SGI659	Acetvlene	Catalytic	LEL 0-100%	-10+50°C
SGI660	Gasoline vapors	Catalytic	LEL 0-100%	-10+50°C
SGI661	Alcohol	Catalytic	LEL 0-100%	-10+50°C



Safety gas EN 61010-29-1 on explosive gas EN 45544-1-3 on toxic gas EN 50270



ADDRESSED Carbon Monoxide gas sensor for Residential and Tertiary use CI0100r

Power supply: Power on demand: Relay Alarm in change: Fault Relay: Sensor: Operating range select.: Data transmission signal: Alarm Threshold: Pack and Degree protection: **Service Port:** Dimensions: Packaging dimensions: Weight: **Compatible unit:**

12÷24 VDC ± 10% 1W max @13,8V 10 SELV 10 A 250V SELV Electrochemical Cell from 0 to 5000ppm **RS485 prot. ModBus RTU** 300ppm ABS IP55 **Present** ABS 78x114x58 197x122x67 300 grammes **BXI32**



The stand-alone **CIO100r** probe has been designed and built according to the rules of the European legislation for toxic gases in a versatile way to verify the presence of carbon monoxide "**CO**". The probe is equipped with an Electrochemical Cell Sensor and is managed by a microprocessor which, in addition to providing an alarm signal to the switching power plants, allows to directly operate the relays it is equipped with when the gas concentration exceeds the predetermined threshold. This probe is useful both when the maximum permissible CO concentration is exceeded, set at 300ppm, or when long periods of low CO concentrations persist but in the accumulation principle they can also damage the human body.

Test: to perform a precise and self-certified test, use the **TS1007** (see page 20) instrument, which also serves to carry out the annual check

ADDRESSED Carbon Monoxide gas sensor for Residential and Tertiary use CI0100/A

Power supply: Power on demand: Relay Alarm in change: Fault Relay: Sensor: Operating range select.: Data transmission signal: Alarm Threshold: Pack and Degree protection: **Service Port:** Dimensions: Packaging dimensions: Weight: **Compatible unit:** 12÷24 VDC ± 10% 1W max @13,8V 10 SELV 10 A 250V SELV Electrochemical Cell from 0 to 5000ppm **R5485 prot. ModBus RTU** 300ppm Alluminio IP66 **Present** 100x100x58 197x122x60 570 grammes **BX132**



The stand-alone **CI0100/Ar** probe has been designed and built according to the rules of the European legislation for toxic gases in a versatile way to verify the presence of carbon monoxide "**CO**". The probe is equipped with an Electrochemical Cell Sensor and is managed by a microprocessor which, in addition to providing an alarm signal to the switching power plants, allows to directly operate the relays it is equipped with when the gas concentration exceeds the predetermined threshold. This probe is useful both when the maximum permissible CO concentration is exceeded, set at 300ppm, or when long periods of low CO concentrations persist but in the accumulation principle they can also damage the human body.

Test: to perform a precise and self-certified test, use the **TS1007** (see page 20) instrument, which also serves to carry out the annual check

ADDRESSED Carbon Monoxide gas sensor for Residential and Tertiary use CIO200/duct

Power supply: Power on demand: Relay Alarm in change: Fault Relay: Sensor: Operating range select.: Data transmission signal: Alarm Threshold: Pack and Degree protection: **Service Port:** Dimensions: Rod size: Flange size: Packaging dimensions: Weight: **Compatible unit:** 12÷24 VDC ± 10% 1W max @13,8V 10 SELV 10 A 250V SELV Electrochemical Cell from 0 to 5000ppm **R5485 prot. ModBus RTU** 300ppm Aluminum IP66 **Present** 100x100x60 200x20 mm 60 mm 160x120x350 760 grammes **BXI32**



The stand-alone **CIO200/Duct** probe has been designed and built according to the rules of the European legislation for toxic gases in a versatile way to verify the presence of carbon monoxide "**CO**". The probe is equipped with an Electrochemical Cell Sensor and is managed by a microprocessor which, in addition to providing an alarm signal to the switching power plants, allows to directly operate the relays it is equipped with when the gas concentration exceeds the predetermined threshold. This probe is useful both when the maximum permissible CO concentration is exceeded, set at 300ppm, or when long periods of low CO concentrations persist but in the accumulation principle they can also damage the human body.

Test: to perform a precise and self-certified test, use the **TS1007** (see page 20) instrument, which also serves to carry out the annual check

Safety gas EN 61010-29-1 on explosive gas EN 45544-1-3 on toxic gas EN 50270



ADDRESSED sensors Explosion-proof ATEX zone for Tertiary use - SGI895,





Since 1972 we write a story of passion for our work and with a unique style by seeking safety against gas leaks, in a highly technological and modern market **The BEINAT S.r.l.** has designed a detection gas sensor for industrial installation, **to be installed in High Risk Zone The new SGI895 series addressed sensors Certified ATEX** has the ability to control catalytic technology through the presence of: See Table. The probe is managed by a microprocessor which in addition to providing an alarm signal to the control unit to which is connected, allows to do a selfdiagnosis, and then an **Automatic Calibration**, in order to have steadily over time the maximum detection accuracy.

The transmission of the monitored gas detection occurs via a **serial data transmission signal RS485.** Also in this sensor it is possible to: To select the working Range to 20% or 100% of lel

Test: to perform a precise and self-certified test, use the TS1007 (see page 20) instrument, which also serves to carry out the annual check

Power supply:	12÷24 VDC ± 10%
Power on demand:	110 mA in alarm Max @ 13,8V
Detection Sensor:	Catalytic, Electrochemical Cell
Explosive gas working range:	100% of LEL
Toxic gas working range:	5000 ppm
Indication: Green LED Normal operation	ation, Red LED State of Alarm, LED Yellow Fault
Operating range:	Select. from 0÷20% to 0÷100%
Sensor accuracy:	1% FS
Autozero procedure:	Included in software algorithms
Data transmission signal:	RS485 prot. ModBus RTU
Operating humidity:	20-90% RH/40°C
Explosive gas working temp:	from -20°C to + 60°C
Toxic gas working temp:	from -20°C to + 50°C
Stocking temperature:	from -25°C to + 70°C
Service Port:	Present
Max. distance from control unit: 100 m	
Connecting cable section:	1 mm
Sensor enclosure:	Aluminum Die Casting
Dimensions:	100 mm
External protection degree:	IP66/67
Electromagnetic compatibility:	EN 50270-1999
Certificate number:	EUM1 10 ATEX 0169
Reference standards:	EN 60079-0, EN 60079-1, EN 61241-0, EN 61241-1
Packaging dimensions:	178x130x85
Weight:	670 grammes
Compatible unit:	BXI32

Code	Type of Gas	Sensor	Range	Temp.
SG895met	Methane	Pellistor	LEL 0-100%	-10+70°C
SG895gpl	LPG	Pellistor	LEL 0-100%	-10+70°C
SG895co	со	Cella Elet.chim.	0-300 ppm	-10+50°C
SG895idr	Hydrogen	Pellistor	LEL 0-100%	-10+50°C
SG895ame	Ammonia Explosive	Pellistor	LEL 0-100%	-10+50°C
SG895amt	Ammonia Toxic	Electrochemical LEL	0-100%	-10+50°C
SG895clo	Chlorine	Electrochemical	10 ppm	-10+50°C
SG895h2s	Hydrogen Sulphite H ₂ S	Electrochemical	100 ppm	-10+50°C
SG895ace	Acetylene	Pellistor	LEL 0-100%	-10+50°C
SG895vbe	Gasoline	Pellistor	LEL 0-100%	-10+50°C
SG895alc	Alcohol	Pellistor	LEL 0-100%	-10+50°C
SG895ara	White Spirit	Pellistor	LEL 0-100%	-10+50°C
SG895eth	Ethanol	Pellistor	LEL 0-100%	-10+50°C
SG895act	Acetone	Pellistor	LEL 0-100%	-10+50°C
SG895hex	Hexane	Pellistor	LEL 0-100%	-10+50°C
SG895eta	Ethyl Acetate	Pellistor	LEL 0-100%	-10+50°C





Acessories





CARD03 Electronic Daughter Board for Gas Probes

- Adaptable Power Supply: 1 Relay: 1 Relay: 1 Relay: Installation: Size: Weight:
- SG580, SGM533, SG800 Through the probe Fault Pre-alarm Main Alarm Quick push-in 60x20 mm 10 grams about



Electronic board for possible remote connection with Relays.

The relay are: A) Fault control B) Gas pre-alarm control, in case of CO detection and accumulation C) Main alarm control

Electronic expansion card relays for control Units CARD-RLS4

Adaptable: Communication: Power supply:
Maximum load:
Installation:
Dimensions:
Weight:

BX308xp-BX316xp Serial Through control unit 10A resistive for relays 4, one for eventuality Quick coupling 105x54 20 grams approx



The CARD-RLS4 is an electronic expansion card relay Connected to the control unit it allows you to control 4 relay indistinctly. The CARD-RLS4 can be multiple until to a maximum of 16, reaching a maximum of 64 relays.

Electronic current-voltage conversion card CARD-BMS16

Adaptable
Converter
Installation:
Dimensions:
Weight:

BX308xp-BX316xp 16 probes Quick coupling 105x54 20 grams approx



The CARD-BMS16 is an electronic current-voltage conversion card

The CARD-BMS16 allows to convert the current generated by the probe in voltage.

Expansion Electronic Card for Control Units CARD-TX4R

Modbus RTU

(
Adaptable	BXI32
Communication:	Serial RS485 Modbu
Power supply:	12 VDC
Maximum load:	10A resistive by relay
Relay	4, one for eventuality
Installation:	At sight
Dimensions:	105x54
Weight:	20 grammes
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	Relay 4
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The CARDO-TX4R is an electronic relay expansion card

Connected to the control unit BXI32 allows indistinctly control 4 additional relays.

The CARD-TX4R can be multiple until a maximum of 2 units for each control unit reaching a maximum of 8 relays.

Spare part Sensor Head

Power supply: Power demand :

Via probe 70 m A

Suitable probes SGM595- SGM595A- SG580, SGM533, SG800, SG895







IP55

TP65

ATFX



FS012M - FS024M - FS230M Flashing Siren

230/240 VAC 50/60 Hz. 9 W @ 230V 12-24V cc 118dB a 100cm 1 Hz Built-in, ON/OFF IP54 135x90x45 168x120x60 300 grams about



The new Flashing Siren "**FS Series**" is born from the elegance and prestige that has always distinguished **BEINAT S.r.I.** The siren is built in three models: FS230M - FS012M - FS024M. This device has the prerogative to signal, through the audio group and of the flashing light incorporated, the presence of danger.

The sirens can have various supply: FS230M; 230/240VAC Supply FS012M; 12V DC Supply FS024M; 24V DC Supply

Alarm manual button

Contat capacity: Contact N.A.: Protection: Size: Packing: Weight:

240V 3A on demand N.C. IP55 $112 \times 50 \times 37$ 197x122x67 250 gr about.



Calibrated spray cans for testing gas detectors



In order to protect the gas detection capsules, BEINAT provided customers with precalibrated spray cans, manufactured and loaded by the company SIAD.

These cans are also used to calibrate new plants, and to check detector efficiency. Please remember that when you initially acquire them you also need to buy the distributing valve.

The tipical canister are aluminium cased and the dimensions are

28cm high, 7.5cm diameter for 1liter of capacity. The weight of the empty cans is 140g and the pressure of the full charged can is usually 12 bar but can change depending of the gas type.

To let the gas flow out from the can is needed a distributing valve. This valve is interchangeable for all the canisters of the same dimensions.

Code BV100 Sprayer TESTING for domestic us 75 ml



GAS Detection Test Kit

Composition 3- Code VLG50

- 1 briefcase 1 bottle (de fault gas methane)
- 1 dispensing valve VL01
- 2 adaptors
- 1 mt of tube

Composition 2- Code VLG80

- 1 briefcase 1 bottle (de fault gas methane) 1 dispensin 2 adaptors dispensing valve VL01 1 mt of tube
- 1 TS1007



Composition 1- Code VLG100

- 1 briefcase 1
 - bottle (de fault gas methane) 1 dispensing valve VL01

 - 2 adaptors 1 mt of tube 1 TS1007

 - 1 Printer

EMC EN50270



TS1007 Test and control equipment for probes and detectors



Powered by Lithium Polymer battery: Consumption during other detection: Consumption during printing: Battery charging: Battery charging: Battery charging: Recharge control: Time to recharge exhausted batteries: Battery charging and consumption control: Alphanumeric display: Events storage: Auto power off: Operating temperature: Working humidity not condensed: Print: Electromagnetic Compatibility: Dimensions: Weight:

3.7 V.cc built-in 3 mA 4 mA 380 hour approx Via USB port from PC External from 5 V. cc 350mA Controlled 8 hours On Display Alpha numeric one until it is turned on After 1 hour of stand-by Built-in -10°C to + 45°C From 0 to 90% By IR port CE 60 * 140 *24mm 180g approx

From the experience since 40 years and the requirements of the rules of the test, BEINAT SrI has built a new tool Tester TS1007 for its own products.

Mainly this new device is suitable to test all conventional probes to detect explosive and toxic gas manufactured by BEINAT Srl

This device allows to read all of the data and the configuration of work that are in the memory of the probes, also, having supplied by the IR transmission, it prints the ticket that confirms the testing data, certifying your own work.

By the Tester TS1007, you can read all of the events that occurred in the probe, such as:

- 1) The type of probe
- 2) The serial number of the probe.
 3) The status of current work, WAITING (warm up) READING DATA FAULT ALARM.
- 4) How many times the voltage has been On/Off.5) How many times it issued an alarm.
- 6) The status of the current calibration.
- How many times the correction has been made.

8) How many operating days remain before the substitution of the sensing element.

Portable thermal printer

Compatible Sensors

Primary power supply: Battery Type: Battery life: Absorption: Transmission: Protocol: Flash memory: Reception buffer: End paper sensors: Paper size: Operating temperature : Operating Humidity

7,5 VDC. AA 1,5V About 1 hour 925mA IR Infrared 940 nm. 33 kHz 8 bit (1 start, 4 error) 32K 128 bytes Built in 57,5mm 1mm -5°C ÷ + 50°C 0-90% not condensed



In conjunction with the test equipment, and to receive the declaration of conformity, BEINAT adapts ted this type of thermal printer as an innovative solution rather than impactbased systems.

The elegant design, dimensions, and weight, together with use flexibility make this printer a useful working tool.

Portable gas detector NASE25

Power Supply Type of batteries Battery duration

3 VDC ± 10% Alkaline AAA Approx. 6 hours

SGM595, SGM533, SG895, SG800, CO100r, HCF100, serie SGF, CXM200/Q

Explosive gas reported to the methane Gas detection sensor: Flexible probe Measurement range: Resolution: Accuracy: Response time: Multicolor Display LCD: Size: Weight:





Since the human being discovered the GAS, he has noticed its usefulness and since then he uses it for cooking, warming, and today in the industrialization.But he has also discovered its dangerousness. To carry it the common people turn to technicians who need

to be assured that their work is free of dangers. To do this we need a reliable and secure control tool.

The **BEINAT S.r.I.** with its prestige for over forty years and distinguishes it from the concept "Fitness equipment" has built the portable gas detector the NASE25 Explosive Gas Detection

This advanced instrument and its precision are due to use of a catalytic sensor

Reading from 3% to 100% of the LEL with 1% LEL

resolution. You can read on the NASE25 even in dimly lit as the display is back

Micro Manometer Portable MT

Powering by Lithium Polymer battery: Current Consumption: Battery life according to function: Battery charging via USB port: Time to recharge batteries: **Pressure Gauge** Pressures: Pressure overload: Thermometer NTC temperature sensor: Precision: Display: Operating temperature: Size: Weight:

3.7 V.cc 2 mA 8 to 84 hour approx from PC 7 hours

from 0 to 150mbar 7000mmH,0

from -50 to +100 °C 1% F.S LCD 3 digit -20° C ÷ + 45° C 60X140X24mm 70g



The MT is an innovative product which combines with the elegance and the prestige of the BEINAT S.r.l. brand, the versatility of a multifunctional instrument. Thermometer

Temperature measurement is taken by way of an incorporated and retractable probe. The temperature is measured over a range of -50 °C to

+100 °C, with an accuracy of 0.5 °C. Pressure Gauge

The Pressure Gauge is easy to use for testing gas powered heating systems, and in testing the efficiency of exhaust flues.

It is calibrated with sophisticated testing machines for which reason, its measurements are very accurate.

Portable instruments

EMC EN50270



The one of a kind multifunction instrument covered by ATEX standard MTG4





It's one innovative digital equipment on the market entirely covered by the International Standards Explosion-proof which allows you to make four tests with a single instrument.

Result of an advanced and sophisticated research, it's has been designed to be used in harsh environments such as explosive atmospheres for the presence of gas. It has been built to respond to the new requirements of the market for the new installation or the existing installations.

It is' covered by the Directive **94/9/ce ATEX** with certificate number **EU 14 ATEX 1884** to protect the health and safety of operators. It 'a portable tool that does the work of four products being a:

Pressure gauge Calibration Boiler Detector of Explosive gas Detector of Toxicgas , CO Thermometer (either air or immersion).

The device is 3-year warranty and is covered by RC insurance products.

Pressure Gauge

Pressures: from 0 to 150mbar 1st measurement range: from 0 to 999mmH₂O 2nd measurement range: from 0 to 150mbar Pressure overload: 7000mmH₂O Precision scale 99,9 mmH₂O: 1% F.S Precision scale 999 mmH₂O: 2% F.S Precision scale 150mbar: 2% F.S

Explosive Gas Detector refered to Methane

Catalytic detection probe: Built-in Positive safety explosion: Sensor protected with retina flameproof Measurement range: from 5% to 100% of LEL Risolution: 1% of LEL Accuracy of the detector: 1% FS Response time: 1" Calibration : Automatic according to detection requirements

Toxic Gas Detection refered Carbon Monoxide

Electrochemical cell detection probe: Built-in Measurement range: from 25 ppm to 350 ppm Risoltion: 1 ppm Calibration: Automatic Accuracy of the detector: 1% FS Response time: 1"

Thermometer

NTC temperature detector: from -50 to +100 °C Precision scale : 1% F.S

Powered by Lithium Polymer battery: 3,7 V.cc built-in Power demand during explosive gas detection: 80 mA Power demand during other detection: 30 mA Standby power demand: 150uA Battery autonomy according to functions: from 8 to 120 hour approx Battery charging: Via USB port from PC Battery charging: .External from 5 V. cc 350mA Recharge control: Controlled by micro-processor Time to recharge exhausted batteries: 7 hours Battery charging and consumption control: On Display **Backlit display with three colors according to the need, among which the Alarm : LCD 3 digit** Operating temperature: -20° C ÷ + 60° C Auto-off switchable according to the need: inserted duration 10 minutes approx Electromagnetic compatibility-EC reference standard: EN 50270 Conformity with safety and health rules reference: EN60079-0:2012, EN60079-11:2012 Dimensions and weight: 60 * 140 *24mm 70gr





Digital Pressure Analyzer MD80

Description	of the TEST programs according to UNI
UNI 7129	Less than 35 kW Tightness test
UNI 11147	Pressure plant tightness test
UNI 11137	Calculation of liter leak automatic
UNI 11137	Calculation of liter leak manual
UNI 11137	Tightness test for max. 18 dm^3 systems
UNI 11137	Valve tightness testa
UNI 11137	Mechanical tightness
UNI 10738	Ventilation and change air in rooms
UNI 10845	Depression test of chimneys draft
UNI 10845	Pressure tightness of chimneys draft
UNI 11528	6 ^a species > of 35kW for external pipes
UNI 11528	6 ^a species > of 35kW for underground pipes
UNI 11528	7 ^a species > of 35kW for external pipes
UNI 11528	7 ^a species > of 35kW for underground pipes



MEASUREMENTS internal sensors
Reading and direct tests up to 10 Pa
Reading and direct tests up to 1000 mbar
Temperature up to 100 ° C
Barometric pressure
MEASUREMENTS external sensors
Reading and direct tests up to 45 har
Temperature up to 500 ° C
Pressure recorder in das nines
Pressure recorder in gas pipes
Set time and date
Set technician data
Set technicidi udid
Change personal a displication of the formation of the second sec
Change password o disabled
The bettern status and control
The battery status read control
Selection of the graphic display
Connection settings with PC
Set language: II-EN-FR-ES
Selecting the internal pressure max 10 Pa
Selecting the internal pressure max 500 mbar
Selecting the external pressure transducer, 10/45 bar
Selecting the size of the test syringe
Selecting thermometer: Internal -20+100 °C
Selecting thermometer "2" : Esternal -50+1000 °C
Selecting bluetooth or IR printer
PRINTER
Control and printer start up
DATA TRANSMISSION & MEMORY
Bluetooth Data transmission
IR data transmission
Customer store from micro SD to internal phonebook
Stored data transmission of the plants inspected,
Deleting stored data
COMMUNICATION PORTS
2 Thermocouple temperature type K ports
1 Micro USB port for PC connection, battery charger
1 Micro HDMI port for connecting accessories
1 Micro SD CARD for storing data
INFORMATIONS
Product, serial number, revision expiration date, etc
Laws and decrees presentation
Diameters and volume of the pipes
CONVERTER
Unit of measure.
CALCULATOR
Mathematic operations

Accesorios para manómetro

TR10External Sensor10barTR25External Sensor25barTR40External Sensor40barTR45External Sensor45barPT100Temperatureprobe450°



Fire Prevention



Fire control unit for industrial use BX44F

Mains Power:	230/240 VAC 50 Hz.
Battery power supply:	12 V. dc ± 10%
Power Demand: 4W in	Allarme
Main Alarm Relays:	10A 250V resistive
Fault Relay:	10A 250V resistive
Number zone:	4
Max number of probes:	20
Compatible sensors:	Optical smoke - fixed temperature
	Temperature rate of rise
Maximum Probe Distance:	100 m
Functioning temperature:	0° C° to + 40° C
Display:	3 digit
Functioning temperature:	-10°C ÷ + 60°C
Degree of protection:	IP20
Size:	158x90x58 mm
Packing:	120x168x60
Weight:	455 grams about
(



The new ${\bf BX44F}$ is born from the elegance and prestige that has always distinguished BEINAT S.r.l. and from the home fitness concept. The device has the capacity of controlling, through its connected probes, the presence of: **"fire".**

Fire detection To the BX44F you can connect up to 4 fire probes per each zone, either temperature or optical smoke

detectors, through a balanced line. The control unit's microprocessor checks the detectors and connection line efficiency, open or short-circuited.

When the probes detect a fire, they will switch the proper relay.

Fire, Smoke, and Temperature Probes



Smoke



Temperature



Soket

These sensors mean the detection control unit can detect a fire by sensing the presence of smoke, white from paper or black from rubber, or immediate or cumulative tempe-rature, according to the selection. Installation is very easy with a bayonet system.

Fire Probes Tech	nical Specifications			
Power Supply:	12/24VDC +/-10%			
Power Demand:	about 100 μA			
Power Demand:	about 50mA			
Protected area:	at 5 m 110 m ²			
Protected area:	at 4 m 120 m ²			
Protected area:	at 3 m 130 m ²			
Installation socket:	ZF300			
Functioning humidity:	Lower than 90% RH			
Degree of Protection:	IP20			
RF500 Optical smoke RF570 Fixed temperature 78°C RF540 Temperature increase				
ZF300 Probe socket				

RFA300 Standalone Fire Detector Optical Smoke



This optical fire detector is able to detects the presence of white smoke (for example from paper) or black smoke (for example from rubber) and activate

the alarm without any controller. Onboard is present a relay and a buzzer and is all the system is powered by a 9V battery that allow a 5 year duration. The installation is easy using the socket included.

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Switching power supplies



Switching Power Supplies



These power supplies are compact and highly efficient in providing 12Vdc at constant voltage.

They are used when the instruments do not have enough power to control solenoid valves, sirens or other components. Moreover, they are used to recharge buffer batteries.

Technical Specifications	AS125	AS160	AS100
Power Supply:	From 110/240 V	AC 50/60 Hz.	
voltage:	12V.dc	12 V.dc	12 V.dc
Current supplied:	2,1 A(25W)	5A(60W)	8,5 A(100W)
Assembly:	Back of the pan	el	
Size:	97x97x35	159x97x38	199x98x38

Technical Specifications	AS135	AS175
Power Supply:	From 110/240 VA	C 50/60 Hz.
Output voltage:	15V.cc	15 V.cc
Current supplied:	2,4 A(35W)	5A (75W)
Assembly:	Retroquadro	Retroquadro
Size:	97x97x35	159x97x38

	AVAILABLE ON REQUEST		
Technical Specifications	AS225	AS260	AS200
Power Supply:	From 110/240 VAC	50/60 Hz.	
Output voltage	24V.dc	24 V.dc	24 V.dc
Current supplied	2,1 A(25W)	5A(60W)	8,5 A(100W)
Assembly:	Back of the panel		
Size	97x97x35	159x97x38	199x98x38

Omega-type Switching Power Supplies



Caratteristiche tecniche	AM112	AM124	AM200
Power Supply:	From 110/240 V/	AC 50/60 Hz.	
Output voltage:	12V.cc	24 V.cc	12 V.cc
Current supplied:	5A(60W)	2,5A(60W)	6A (72W)
Assembly:	Barra Omega		
Size:	4 Modules	4 Modules	6 Modules



ASI012 Technical Specifications

Indispensable power supply, for an **ADDRESSED SYSTEM** These Power Supplies are built in a highly efficient compact design to provide a constant 12 VDC power supply to the probes connected

Power supply for 8 sensors 110/230 VAC - 12 VDC - 2 Ah Note: Each sensor power demand 200 mA



AC Series Rechargeable Accumulators



A security system may also have to guarantee security during black-outs, so we recommend installing 12Vdc Rechargeable Accumulators. Every BEINAT product that can be connected to a buffer battery has a built-in charger.

Technical Specifications	AC100	AC150	AC200
Voltage rating:	12 VDC 1.2 Ab	12 VDC 2 Ab	12 VDC 6 Ab
Self-discharge at 25°C:	After 6 months	187 AMP	U All
Size:	97x50x47	175x25x55	151x94x65



Some Applications of Gas Detectors

Domestic Use	Boiler Rooms	Industry	Churches	Scholastic Sector
Bakery Plant	Industrial Kitchens	Air-based Heating	Pools	Boats and Caravans
Food Industry	Wineries	Underground Parking	Garages	Hangars
Hospital Sector	Refrigeration	Battery Charging Rooms	Ducted Systems	Metro Tunnels
Welding Workshops	Brazing Ovens	Animal Husbandry	Food Cooking	Air Quality
Chemical Sector	Naval Sector	Aerospace Sector	Mining Sector	Storage of Gas Cylinders























BEINAT in the world

BEINAT s.r.l is present in many countries in the world. To consult our nearest distributor or if you are interested to become our distributor, please contact us through our contact Tel +39-011.921.04.84 Fax +39-011.921.14.77 info@beinat.com

Italy | France | Spain | Portugal |United Kingdom | Greece | Germany |Poland | Bosnia and Herzegovina | Republic Moldova | Colombia |Chile| Vietnam | Urugay |Taiwan | USA |Cambogia| Israel | Qatar | UAE| Egypt | Cyprus | Syria | Georgia |Iraq| Saudi Arabia| Jordan| Iran| Bahrain | Kuwait| Oman|



in the world

Export countries: 34 Dealers: 10 Agents: 8 Importers: 10 Warehouses: 8





General Sales Terms

ORDERS - BEINAT S.r.l. accepts written orders according to the sales terms reported below.

For old customers the sales terms for order execution will be the last ones supplied, while for new customers the conditions applied by the sales agents and accepted by our Company will apply.

The order execution prices are those reported in the latest pricelist; no different, or previous pricelist prices will be accepted if not agreed upon, and accepted in writing by **BEINAT S.r.I.** reserves the right, in its sole judgement, to refuse execution of the order.

With the exception of contrary communication, orders are considered accepted. In case of different sales provisions from the general terms or previously agreed conditions, BEINAT S.r.l. reserves the right to modify the same or to reject the order.

PRICES - The sales prices are those reported on the last pricelist issued by BEINAT S.r.I. The orders received with previous prices will be executed at current prices. All prices are EXCLUDED VAT.

DELIVERY - The delivery terms reported on the written orders are not binding for BEINAT S.r.l. if not expressly accepted.

The delivery terms accepted by BEINAT S.r.l. begin on the day after the order until the goods delivery date. Delays of the latter cannot be ascribed to BEINAT S.r.l. or accepted for cancellation of an order.

The delivery terms approved by BEINAT S.r.I. may vary due to suppliers non-compliance and are therefore subject to change at any moment. The minimum invoiced amount issued by BEINAT S.r.l. is 500.00 EURO according to the pricelist.

For lower buys to 100 Euro, it will come applied an expense of 5 Euro.

DELIVERY - If not expressly and otherwise specified on the order acceptance, the prices are meant ex our warehouse; transport expenses are charged to the customer and entered on the invoice.

DAMAGES - BEINAT S.r.l. is not liable for damages occurring to the goods during transport or delivery.

PACKAGING - The instruments' packaging is included in the price. Special cardboard, boxes, or pallets necessary for shipment are added to the total cost

CLAIMS - No claims are accepted from eight day after delivery.

RETURNS - No returns are accepted for ordered and functioning goods. All returns must be approved and authorized by BEINAT S.r.I.

REPAIRS - The only authorized repairs on BEINAT S.r.I. instruments are those effected by the same or by authorized technicians. Any tampering by non-authorized personnel immediately invalidates the warranty.

WARRANTY - The warranty on BEINAT S.r.I. products is, except for written exceptions, three years from manufacturing date.

INSURANCE - All devices manufactured by **BEINAT S.r.I.** are covered by insurance for damages directly caused by them up to a maximum of **1,500,000 EURO**, at the conditions reported on the policy agreed with the Reale Mutua insurance company. **PAYMENT** - Payments are performed by strictly abiding to the agreed terms. In case of delay **BEINAT S.r.I.** will charge the customer with the passive

interests at the current bank rate. In case of non payment BEINAT S.r.I. reserves the right to take the necessary legal actions.

MODIFICATIONS - BEINAT S.r.I. reserves the full right to change its pricelists, and the technical specifications reported in this catalogue without notice. DISPUTES - In case of disputes the jurisdiction of Turin applies.

The contents of the technical specifications in this catalogue are not binding for BEINAT S.r.l.

Warranty

1. BEINAT S.r.l. is committed to using optimum quality material for good manufacture of its equipment.

2. The warranty term is 3 years from manufacturing date and is valid for all parts with material and manufacturing defects.

The same will be replaced free of charge, excluding the replacement of: plastic or aluminium containers and/or cases, bags, packing, possible batteries and technical reports.

Moreover, transport expenses will be charged. The faulty device must arrive free of shipment charges to BEINAT S.r.l. and will be returned freight collect after repair.

3. During warranty, parts repair or replacement does not imply the extension of the expiration date of the warranty itself. The warranty is valid only if the repair and spare replacement is performed by service centres authorized by BEINAT S.r.I.

4. The warranty is not valid for damages resulting from bad or improper use of the equipment according to the manual instructions, as well as from incorrect testing resulting from measurements or under overpressure. The warranty is also void for damages caused to the device by external components. BEINAT S.r.I. is not liable for possible damage, direct or indirect, to people, animals, or things; from product faults and from its enforced suspension of use.

5. No person is authorized to modify the terms of this warranty, nor to issue other written minutes.

6. In regard to out of warranty services, after the term of the same, technical assistance is provided by charging the user for possible spare parts replaced plus expenses for manpower, travel and transport of material; according to the costs stated in the pricelists for this field. 7. The jurisdiction of **TURIN** applies in any dispute.









BEINATS.r.l. Via Fatebenefratelli 122C 10077, S.Maurizio C/se (TO) - ITALY Tel. +39011.921.04.84 - Fax +39011.921.14.77 Sito: http:// www.beinat.com info@beinat.com

