SINCE 1972

BEINAT
GAS SOLUTIONS

Catalogue 2019

- **GAS Safety**
- **Fire Alarm**
- **Instruments**
- **Thermoregulation**

NON E' MAI
TROPPO TARDI

PER FARE SCELTE
MIGLIORI

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

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Channel: Beinat gas solutions

Styling b&b design

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.l.** 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.l. manufactures and markets its products according to EN and CEE European Norms, and provides insurance up to a maximum of € 1,500,000.00.

ASSOCIATO ANIE

FEDERAZIONE NAZIONALE IMPRESE ELETTRONICHE ED ELETTRICHE

CONFINDUSTRIA

kiwa certified
SERVIZIO CERTIFICATO
ISO 9001:2015

IEC

TÜV SÜD

REALE MUTUA ASSICURAZIONI
RC PRODOTTI

IdroLAB

METEL

FARMADATI

eurofins

FTZÚ Ex

CE

RoHS Compliant

Household Gas Detector type A GSH900

Power supply:	230/240 VAC 50/60 Hz.
Power Demand:	1W
Main Alarm Relays:	10A 250V resistive
Sensor:	Catalytic
Alarm threshold:	At 10% of L.E.L.
Degree of protection:	IP42
Installation:	Embedded
Compatible plate-covers:	**B-TICINO:** Axolute, LL, Luna **VIMAR:** Eixon, Plana, Arkè, Idea **Gewis:** Top system
Size:	65x45x50 3 modules
Packaging:	100x130x95
Weight:	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

Power supply:	230/240 VAC 50/60 Hz.
Power Demand:	1W
Main Alarm Relays:	10A 250V resistive
Sensor:	Catalytic
Alarm threshold:	At 10% of L.E.L.
Degree of protection:	IP42
Installation:	Wall mounted
Size:	115x150x50
Packaging:	120x168x60
Weight_	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 **L**ower **E**xplosion **L**imit, 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

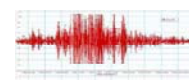|	
Power supply:	230/240VAC 50/60Hz.
Battery Power supply:	12 VDC ± 10%
Battery:	12 V. 1,2 Ah
Battery charger:	Built in
Power Demand:	1 W
Main Alarm Relays:	10A 250V resistive
Sensor:	Catalytic
Alarm threshold:	At 10% of L.E.L.
Solenoid valve:	12VDC Impulsive
Degree of protection:	IP42
Installation: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

From the elegance and prestige that has always characterized the **BEINAT Srl** and from the concept of home fitness, comes 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 battery.
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:	230/240 VAC 50/60Hz
Battery power supply:	12 V. dc ± 10%
Battery:	1,2 Ah
Power Demand:	2W
Main Alarm Relays:	10A 250V resistive
Sensor :	Catalytic
Alarm threshold:	al 10% LIE
Anti Seismic Control:	**Incorporated**
Positive Safety:	Selection
Degree of protection:	IP42
Size:	115x150x50
Packaging:	120x168x60
Weight:	420 grams about

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 Gas Detector type A RGX100[2]

Power supply:	230/240 VAC 50/60 Hz.
Power Demand:	1W
Main Alarm Relays:	10A 250V resistive
Sensor :	Catalytic
Alarm threshold:	At 10% of L.E.L.
Degree of protection:	IP42
Installation:	Wall mounted
Size:	115x150x50
Packaging:	120x168x60
Weight_	315 grams about

Using the catalytic sensor inside it, the **RGX100[2]** detector detects the presence of explosive gases such as: **Methane, LPG**, with trip sensitivity calibrated to 10% of **L**ower **E**xplosion **L**imit, 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 Toxic and Explosive Gas Detector type A   CHCO

Power supply:	230/240 VAC 50/60 Hz.
Power Demand:	1W
Alarm Relay for Espl. gas:	10A 250V resistive
Alarm Relay for Toxic gas:	10A 250V resistive
Sensors Explosive Gas:	Catalytic
Sensors Toxic Gas:	Electrochemical Cell
Espl. Alarm threshold:	At 10% of L.E.L.
Toxic Alarm threshold:	From 30 to 300ppm
Degree of protection:	IP42
Degree of protection:	Wall mounted
Size:	115x150x50
Packaging:	120x168x60
Weight:	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:	230/240 VAC 50/60 Hz.
Power Demand:	1 W
Main Alarm Relays:	10A 250V resistive
Sensor:	Electrochemical Cell
Toxic alarm threshold:	From 30 to 300ppm
Degree of protection:	IP42
Degree of protection:	Wall mounted
Size:	115x150x50
Packaging:	120x168x60
Weight:	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:	12 VDC ± 10%
Power Demand :	1W
Main Alarm Relays:	10A 250V resistive
Sensor:	Semiconductor
Alarm threshold:	At 10% of L.E.L.
Degree of protection:	IP30
Installation:	Wall mounted
Size:	112x50x36
Packaging:	122x60x45
Weight:	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 **L**ower **E**xplosion **L**imit, and can activate solenoid valves, sirens and any other signal or alarm handling device, by means of the 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.

Toxic and Explosive Gas Detector Control Unit for Industrial use GS100M

Power Supply:	110÷240 VCA 50/60 Hz
Battery power supply:	12 VDC ± 10%
Power Demand :	7W during alarms
The Pre alarm Relay:	10A 250V resistive
Main Alarm Relays:	10A 250V resistive
Max number of probe:	**1**
Catalytic, Pellistor, Electrochemical, 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:	850 grams about

Through the connection of **1** remote probe, the **GS100M** control unit has been designed and built according to European regulations to detect the presence of **toxic and/explosive gas.**
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 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 GS300M

Power Supply:	110÷240 VCA 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, Electrochemical, 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 **3** remote probe, the **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 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 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 GS300-Mc

Power Supply:	110÷240 VCA 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, Electrochemical, 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
Multicolor Display LCD:	Showing current
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

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 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

LCD display with easy to read color
one for each operating status
    1) Adjust: Green
    2) Alarm: Red
    3) Fault: YelloW

00 lel	20 lel	300 ppm	FAU	O₂

Multicolor Display LCD: Showing the current status of the Unit

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

Power Supply:	110÷240 VCA 50/60 Hz
Battery power supply:	12 VDC ± 10%
Power Demand:	9,3 W during alarms
The Pre alarm Relay:	10A 250V resistive
Main Alarm Relays:	10A 250V resistive
Max number of probe:	**4**
Catalytic, Pellistor, Electrochemical, 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
Multicolor Display LCD:	Showing current
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

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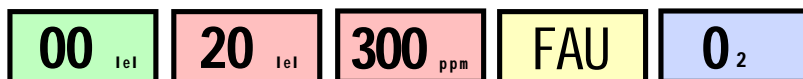**Choose** the relay functioning mode (pulsed or continuous);
Choose selection of the **intrinsic safety**

LCD display with easy to read color
one for each operating status
    1) Adjust: Green
    2) Alarm: Red
    3) Fault: YelloW

00 lel	20 lel	300 ppm	FAU	O₂

Multicolor Display LCD: Showing the current status of the Unit

Modular Toxic and Explosive Gas Detector Control Unit   BX150

Power Supply:	230/240 VAC 50/60 Hz.
Battery power supply:	12 VDC ± 10%
Power Demand:	5W during alarms
The Pre alarm Relay:	10A 250V resistive
Main Alarm Relays:	10A 250V resistive
Max number of probe:	**1**
Catalytic, Pellistor, Electrochemical, 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:	IP20
Installation:	Panel mounted
Size:	112x96x44
Packaging:	170x170x120
Weight:	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 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   BX180

Power Supply:	110÷240 VCA 50/60 Hz
Battery power supply:	12 VDC ± 10%
Power Demand:	5W during alarms
The Pre alarm Relay:	10A 250V resistive
Main Alarm Relays:	10A 250V resistive
Max number of probe:	**1**
Catalytic, Pellistor, Electrochemical, 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:	IP20
Installation:	Panel mounted
Size:	105x90x58 6 modules
Packaging:	100x130x95
Weight:	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/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 BX180 is suitable for civil and industrial applications.
The **BX180** 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**

Toxic and Explosive Gas Detector Control Unit for Industrial use   BX280

Power Supply:	110÷240 VCA 50/60 Hz
Battery power supply:	12 VDC ± 10%
Power Demand:	7W during alarms
The Pre alarm Relay:	10A 250V resistive
Main Alarm Relays:	10A 250V resistive
Max number of probes:	**2**
Catalytic, Pellistor, Electrochemical, 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:	IP20
Installation:	Panel mounted
Size:	105x90x58 6 modules
Packaging:	100x130x95
Weight:	250 grams about

Through the connection of **2** remote probe, the **BX280** 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 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**

Optional cabinet for BX180 and BX280 Code KA008

Dimensions: 200x195x110
Weight: 200 grams about
Degree of protection: **IP65**

BEINAT

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:	**5** (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

The new **BX449F** 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: **"explosive gas, toxic gas, fire".**
Gas detection
The control unit has two danger levels:
1st LEVEL, pre-alarm. This is set at 13% of L.E.L. (200ppm) for all probes.
2nd LEVEL, main alarm. This is set at 20 % of L.E.L. (300ppm) 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.

Explosive Gas Detector for Industrial use CXM200/Q

Power Supply:	230/240 V.ca 50/60 Hz. +/- 10%
Power Consumption:	2,4W
Pre alarm and Main Relay:	10A 250V resistive
Sensor:	Catalytic
Sensitivity Prealarm:	I 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 **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:**	15 VDC
Secondary power supply by battery Max **2,2 Ah:**	12,7 VDC
Battery charger **Max 2,2 Ah:**	Controlled
Power demand:	3 W in Alarm
ADDRESSED Sensors**:**	Max **32**
Catalytic, Electrochemical, Semiconductor	
Communication protocol;	**ModBuss RTU**
Variable pre-alarm threshold	for each sensor from 3 to 18% LEL
Explosive alarm threshold:	20 % of LEL and 300ppm
Display:	4 lines 20 cln
Positive Safety:	Selectable
Pre-alarm output relay:	ON-OFF
Alarm output relay:	In change
Fault relay:	ON-OFF
External siren and buzzer silencing:	Via software
Manual Alarm Signaling:	Built-in
Working temperature:	-10°C ÷ +60°C
Installation:	Panel mounted
Dimensions **BXI32:**	158x90x58 9mod
Packaging dimensions:	197x122x67
Weight:	400 grammes
Degree of protection:	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 nedessary.

Optional cabinet for BXI32, composition:

a) Rail DIN Omega for insertion **BXI32, b)** Switching Power Supply **110÷240** VAC 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

Box for n°1 BXI32 Code KAC019
Box for n°2 BXI32 Code KAC118

BEINAT

Gas Detector Control Unit for Car Parks and Industrial Plants **BX308xp**

Main Power Supply **unboxed version**:	12/15 VDC
Secondary power supply via battery:	12,7 V. dc
Battery Charger **Max 2,2 Ah:**	Controlled
Power Demand:	18 W in Alarm
Pre allarm Relay:	10A 250V resistive
Main alarm Relay:	10A 250V resistive
Siren relay:	10A 250V resistive
Fault relay:	10A 250V resistive
Conventional probes:	Max **8**
Catalytic, Pellistor, Electrochemical, Semiconductor	
1st Pre-Alarm Adjustable for every probe:	Ffrom 3% to 16% of LEL
2nd Main alarm for every active area:	20 % del LIE - 300ppm
Input signal:	4 ÷ 20 mA over 150 Ohm
Accuracy:	1 % FS
Display:	Retroilluminated
Opearting Range:	Selectable 20 or 100 of LEL
Silent siren external and Buzzer	integrated
Manual external alarm	integrated
Functioning temperature	-10°C ÷ + 60°C
Installation BX308xp:	Panel mounted
Degree of protection	IP20
Size**:**	158x90x58 9 modules
Size box:	197x122x67
Weight:	390 grammi about

The elegance and the prestige, that have always made **BEINAT S.r.l.** stand out from its competitors, together with the concept of industrial fitness comes to the new control unit **BX308xp** which has the main task of controlling, by means of probes coupled to 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.

Optional cabinet for BX308xp, composition:

a) Rail DIN Omega for insertion **BX308xp,**
b) Switching Power Supply **110÷240** VAC 35W 12 VDC
c) Control unit cable and power supply,
d) Battery holder bracket
Dimensions: 340x280x160, Packaging dimensions: 330x380x190, Weight: 3100 grammes.
Degree of protection: IP65
Box for n° 1 BX308xp Code KAC009

Gas Detector Control Unit for Car Parks and Industrial Plants **BX316xp**

Main Power Supply **unboxed version**:	12/15 VDC
Secondary power supply via battery:	12,7 V. dc
Battery Charger **Max 2,2 Ah:**	Controlled
Power Demand:	30 W in Alarm
Pre allarm Relay:	10A 250V resistive
Main alarm Relay:	10A 250V resistive
Siren relay:	10A 250V resistive
Fault relay:	10A 250V resistive
Conventional probes:	Max **16**
Catalytic, Pellistor, Electrochemical, Semiconductor	
1st Pre-Alarm Adjustable for every probe:	Ffrom 3% to 16% of LEL
2nd Main alarm for every active area:	20 % del LIE - 300ppm
Input signal:	4 ÷ 20 mA over 150 Ohm
Accuracy:	1 % FS
Display:	Retroilluminated
Opearting Range:	Selectable 20 or 100 of LEL
Silent siren external and Buzzer	integrated
Manual external alarm	integrated
Functioning temperature	-10°C ÷ + 60°C
Installation BX316xp:	Panel mounted
Degree of protection	IP20
Size**:**	158x90x58 9 modules
Size box:	197x122x67
Weight:	390 grammi about

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 innovative manner by connecting **conventional probes.**
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.
2nd LEVEL, general alarm. it is set to 20 % of L.E.L. or 300ppm

Optional cabinet for BX316xp, composition:

a) Rail DIN Omega for insertion **BX316xp,**
b) Switching Power Supply **110÷240** VAC 75W 12 VDC
c) Control unit cable and power supply,
d) Battery holder bracket
Dimensions for 1 control unit : 330x340x160, Packaging dimensions: 330x380x190, Weight: 3100 grammes
Dimensions fpr 2 control unit: 340x450x160, Packaging dimensions: 350x390x190, Weight: 3400 grammes
Degree of protection: IP65

Box for 1 BX316xp   Codice KAC019
Box for 2 BX316xp   Codice KAC118

SG500 EXPLOSIVE Gas Probe and Control Unit for Industrial use

Power Supply	12÷24 VDC ± 10%
Power Demand	1W max @13,8V
Sensor	Catalytic
Input Signal	4 ÷ 20 mA
Data transmission	Not present
Functioning Temperature	-10°C to +50°C
Degree of Protection	IP30
Compatible control units:	whole range
Size	112x50x37
Packaging:	122x60x45
Weight	120 grams about

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 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 **SG500** false alarm free and transmits the signal to the Control Unit with absolute reliability conforming to the 4÷20mA standard.

SG544 EXPLOSIVE Gas Probe and Control Unit for Industrial use

Power Supply:	12÷24 VDC ± 10%
Power Demand:	1W max @13,8V
Sensor:	Catalytic
Input Signal:	4 ÷ 20 mA
Data transmission:	Not present
Functioning Temperature:	-10°C to +50°C
Degree of Protection:	IP44
Compatible control units:	whole range
Size:	78x114x58
Packaging:	197x122x67
Weigh:	250 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 **SG544** 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 Normal operation,	
Red LED State of Alarm, LED Yellow Fault	
Operative Range:	0÷20% 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.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 ÷ 20 % L.E.L. linear output, conforming to the 4 ÷ 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.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

SGM595/A 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 Normal operation,	
Red LED State of Alarm, LED Yellow Fault	
Operative Range:	0÷20% 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:	IP65
Compatible control units:	whole range
Case and Size:	Aluminum100x100x58
Packaging:	197x122x67
Weight:	500 grams about

SGM595/A met/gpl
SGM595/Aamt
SGM595/A idr.
SGM595/A ace.
SGM595/A vbe
SGM595/A alc

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 ÷ 20 % L.E.L. linear output, conforming to the 4 ÷ 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.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

SGM600 EXPLOSIVE Conventional 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**

SGM600

SGM533 standalone EXPLOSIVE 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 Normal operation,	
Red LED State of Alarm, LED Yellow Fault	
Sensor:	Catalytic
Input Signal:	4 ÷ 20 mA
Data transmission:	Not present
Service Port:	**Present**
1st Alarm Threshold:	At 13% of LEL with relay
2nd Alarm Threshold:	At 20% of LEL with relay
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:	300 grams about

The new **SGM533** is born from the elegance and prestige that has always distinguished **BEINAT S.r.l.** 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 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.

Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

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 Normal operation,	
Red LED State of Alarm, LED Yellow 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
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 ÷ 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 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.

Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

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
SG800amt	**Ammonia Toxic**	Catalytic	LEL 0-100%	-10+50°C
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
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
SG800O$_2$	**Oxygen**	Optical fluorescenze	Def.-Excess	-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
SG800fre5	**Freon R32**	Semiconductor	ppm 0-5000	-20+60°C
SG800fre6	**Freon R507**	Semiconductor	ppm 0-5000	-20+60°C

SG850 O$_2$	**Oxygen**	Optical fluorescenze Deficien.-Excess in %	-10+50°C
SG850CO$_2$	**Carbon dioxide**	Infrared rays	from 5% to 20%	-10 + 50 ° 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 Normal operation, Red LED State of Alarm, LED Yellow Fault Operative Range: 0÷20% 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:	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 ÷ 20 % L.E.L. linear output, conforming to the 4 ÷ 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.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

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 Normal operation, Red LED State of Alarm, LED Yellow 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 ÷ 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 LEVEL, main alarm. Set at 20 % of L.E.L. The alarm drives 1 relay.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

SG-O$_2$100 standalone Oxygen 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:	**Optical fluoresence**
Detections:	
18% ÷ 20,8% di O$_2$,	~ da 20,8% ÷ 22,5% di O$_2$
Display:	Percentage O$_2$
Segnale di uscita:	4 ÷ 20 mA su 220 Ohm
Service Port:	**Present**
Soglia di allarme:	Depletion o Exces di O$_2$
Degree of Protection:	IP55
Compatible control units:	whole range
Case and Size:	ABS-78x114x58
Packaging:	197x122x67
Weight:	270 grams about

Always attentive to the needs of a highly technological and demanding modern market, **BEINAT S.r.i.** designed an OXYGEN gas detection probe.
The new **SG-O$_2$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

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
Freon R134A, R4404, R407, R410, R32, R507	

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 **FREO: R134a, R404A, R407C, R410, R32, 507**.

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 ÷ 300ppm, functioning with standard 4 ÷ 20 mA.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

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

ATEX SG895 Flammable Gas Probe

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

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.l.**
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

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**	Catalytic	LEL 0-100%	-10+50°C
SG895gpl	**LPG**	Catalytic	LEL 0-100%	-10+50°C
SG895idr	**Hydrogen**	Catalytic	LEL 0-100%	-10+50°C
SG895amt	**Ammonia Toxic**	Electrochemical	LEL 0-100%	-10+50°C
SG895ace	**Acetylene**	Catalytic	LEL 0-100%	-10+50°C
SG895vbe	**Gasoline**	Catalytic	LEL 0-100%	-10+50°C
SG895alc	**Alcohol**	Catalytic	LEL 0-100%	-10+50°C
SG895ara	**White Spirit**	Catalytic	LEL 0-100%	-10+50°C
SG895eth	**Ethanol**	Catalytic	LEL 0-100%	-10+50°C
SG895act	**Acetone**	Catalytic	LEL 0-100%	-10+50°C
SG895hex	**Hexane**	Catalytic	LEL 0-100%	-10+50°C
SG895eta	**Ethyl Acetate**	Catalytic	LEL 0-100%	-10+50°C
SG895co	**Carbon monoxide**	Electrochemical	300 ppm	-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
SG895 O_2	**Oxygen**	Optical fluorescenze	Deficien.-Excess in %	-10+50°C
SG895 ac	**Carbon dioxide**	Infrared rays	from 1.5% to 20%	-10 + 50 ° C

Code **PRES3B** Cable gland in ATEX Chrome Steel 3/4 - in 10-piece pack.

CO100r TOXIC Gas Probe and Control Unit for Industrial use

Power Supply:	12÷24 V. dc ± 10%
Power Demand:	1 W max @13,8V
The Pre alarm Relay:	10A SELV
Main Alarm Fault:	10A SELV
Sensor and Protection:	Electrochemical Cell,
Range of Measurement:	0 to 1000ppm
Toxic alarm threshold:	From 30 to 300ppm
Output Signal:	4 ÷ 20 mA
Data transmission:	Not present
Service Port:	**Present**
Test Phase Duration:	90 seconds
Functioning Temperature:	-20°C to +50°C
Degree of Protection:	Case IP55
Compatible control units:	whole range
Case and si:	**ABS-78x114x58**
Packaging:	197x122x67
Weight:	300 grams about

The standalone **CO100r** 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.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

EN 45544-1-3 - CEI 216-3 - EN 50270

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

Power Supply:	12÷24 V. dc ± 10%
Power Demand:	1 W max @13,8V
The Pre alarm Relay:	10A SELV
Main Alarm Fault:	10A SELV
Sensor and Protection:	Electrochemical Cell,
Range of Measurement:	0 to 1000ppm
Toxic alarm threshold:	From 30 to 300ppm
Output Signal:	4 ÷ 20 mA
Data transmission:	Not present
Service Port:	**Present**
Test Phase Duration:	90 seconds
Functioning Temperature:	-20°C to +50°C
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.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

EN 45544-1-3 - CEI 216-3 - EN 50270

CO233 TOXIC Gas Probe and Control Unit for Industrial use

Power Supply:	12÷24 V. dc ± 10%
Power Demand:	1 W max @13,8V
Multicolor Display LCD:	Showing current
The Pre alarm Relay:	10A SELV
Main Alarm Fault:	10A SELV
Sensor and Protection:	Electrochemical Cell,
Range of Measurement:	0 to 1000ppm
Toxic alarm threshold:	From 30 to 300ppm
Output Signal:	4 ÷ 20 mA
Data transmission:	Not present
Service Port:	**Present**
Test Phase Duration:	90 seconds
Functioning Temperature:	-20°C to +50°C
Degree of Protection:	Case IP65
Compatible control units:	whole range
Case and size:	Aluninium -100x100x60
Packaging:	197x122x67
Weight:	300 grams about

The standalone **CO233** 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.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

EN 45544-1-3 - CEI 216-3 - EN 50270

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

Power Supply:	12÷24 V. dc ± 10%
Power Demand:	1 W max @13,8V
The Pre alarm Relay:	10A SELV
Main Alarm Fault:	10A SELV
Sensor and Protection:	Electrochemical Cell,
Range of Measurement:	0 to 1000ppm
Toxic alarm threshold:	From 30 to 300ppm
Output Signal:	4 ÷ 20 mA
Data transmission:	Not present
Service Port:	**Present**
Test Phase Duration:	90 seconds
Functioning Temperature:	-20°C to +50°C
Degree of Protection:	Case IP65
Compatible control units:	whole range
Case and size:	Aluninium -100x100x60
Rod Size:	200x20 mm
Flange Size:	60 mm
Packaging:	197x122x67
Weight:	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 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.
Test: to perform a precise and self-certified test, use the **TS1008** (see page 23) instrument, which also serves to carry out the annual check.

EN 45544-1-3 - CEI 216-3 - EN 50270

Conventional stand-alone EXPLOSIVE gas probe for industrial use SGF100

*It's born a new method for detecting.
In its small size it contains a great technology.
Elegant and fine in residential, robust in industrial.*

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 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 self-diagnosis, 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 ÷ 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 **TS1008** (see page 23) instrument, which also serves to carry out the annual check

Power supply:	**12÷24 VDC** ± 10%
Power demand:	110 mA Max @ 13,8VDC
Relay switching alarm:	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:	According to the type of sensor
Operating range selectable by switch:	From 0 ÷ 20%, or 0 ÷ 100% of LEL
Analog output signal:	4 ÷ 20 mA to 220 Ohm standard tolerance
Data transmission:	Not present
Service Port:	**Present**
Accuracy of the detector:	+/- 1 % FS
Auto zero procedure:	Included in the software algorithms
Response Time:	< 10"
Compatible control units:	whole range
Functioning humidity:	0-90% not condensed
Functioning temperature:	from -10°C to + 50°C
Mounting:	on the ceiling or on the wall
Anti-extrusion protection:	included
Probe's body material:	Self-extinguishing polypropylene VDE0471
External degree of protection:	IP64
Case and Size:	ABS 90 mm
Packaging:	197x122x67
Weight:	90 grams about

SGF100	**Conventional methane**
SGF102	**Conventional LPG**
SGF104	**Conventional oxygen**
SGF106	**Conventional freon**
SGF108	**Conventional Hydrogen sulphide**
SGF110	**Conventional monossido di carbonio**
SGF112	**Conventional Hydrogen**
ZSGF01	**Optional Probe socket**

Addressable stand-alone EXPLOSIVE gas sensors for industrial use

Addressable stand-alone EXPLOSIVE gas sensors for industrial use SGF100

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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 self-diagnosis, 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:
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 **TS1008** (see page 23) instrument, which also serves to carry out the annual check

Power supply:	**12 VDC** ± 10%
Power demand:	110 mA Max @ 13,8VDC
Relay switching alarm:	1 A SELV
Selection of the positive safety:	Through switch
Detection on demand: Gas:	**See below**
Integrated sensor:	According to the type of GAS
Operating range of the sensing element:	According to the type of sensor
Operating range selectable by switch:	From 0 ÷ 20%, or 0 ÷ 100% of LEL
Data transmission:	**Serial RS485 with Modbus RTU**
Service Port:	**Present**
Compatible control units	**BXI32**
Accuracy of the detector:	+/- 1 % FS
Auto zero procedure:	Included in the software algorithms
Response Time:	< 10"
Functioning humidity:	0-90% not condensed
Functioning temperature:	from -10°C to + 50°C
Service Port:	**Present**
Mounting:	**on the ceiling or on the wall**
Anti-extrusion protection:	included
Probe's body material:	Self-extinguishing polypropylene VDE0471
External degree of protection:	IP64
Case and Size:	ABS 90 mm
Packaging:	197x122x67
Weight:	90 grams about

SGF101	**Adressable methane**
SGF103	**Adressable LPG**
SGF105	**Adressable oxygen**
SGF107	**Adressable freon**
SGF109	**Adressable Hydrogen sulphide**
SGF111	**Adressable monossido di carbonio**
SGF113	**Adressable Hydrogen**
ZSGF01	**Optional Probe socket**

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:	12 VDC ± 10%
Power on demand:	1W max @13,8V
Signals:	Diode LEDS:
green regular function, yellow 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 self-diagnosis, 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 **TS1008** (see page 23) 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 VDC ± 10%
Power on demand:	1W max @13,8V
Signals:	Diode LEDS:
green regular function, yellow 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 **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 self-diagnosis, 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 **TS1008** (see page 23) 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	**Hydrogen**	Catalytic	LEL 0-100%	-10+50°C
SGI653	**Explosive Ammonia**	Catalytic	LEL 0-100%	-10+50°C
SGI659	**Acetylene**	Catalytic	LEL 0-100%	-10+50°C
SGI660	**Gasoline vapours**	Catalytic	LEL 0-100%	-10+50°C
SGI661	**Alcohol**	Catalytic	LEL 0-100%	-10+50°C

BEINAT

ADDRESSED Carbon Monoxide gas sensor for Residential and Tertiary use CO155

Power supply:	12 VDC ± 10%
Power on demand:	1W max @13,8V
Relay Alarm in change:	10 SELV
Fault Relay:	10 A 250V SELV
Sensor:	Electrochemical Cell
Operating range select.:	from 0 to 5000ppm
Data transmission signal:	**RS485 prot. ModBus RTU**
Alarm Threshold:	300ppm
Pack and Degree protection:	ABS IP55
Service Port:	**Present**
Dimensions:	ABS 78x114x58
Packaging dimensions:	197x122x67
Weight:	300 grammes
Compatible unit:	**BXI32**

The stand-alone **CO155** 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 **TS1008** (see page 23) instrument, which also serves to carry out the annual check

ADDRESSED Carbon Monoxide gas sensor for Residential and Tertiary use CO165

Power supply:	12 VDC ± 10%
Power on demand:	1W max @13,8V
Relay Alarm in change:	10 SELV
Fault Relay:	10 A 250V SELV
Sensor:	Electrochemical Cell
Operating range select.:	from 0 to 5000ppm
Data transmission signal:	**RS485 prot. ModBus RTU**
Alarm Threshold:	300ppm
Pack and Degree protection:	Alluminio IP66
Service Port:	**Present**
Dimensions:	100x100x58
Packaging dimensions:	197x122x60
Weight:	570 grammes
Compatible unit:	**BXI32**

The stand-alone **CO165** 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 **TS1008** (see page 23) instrument, which also serves to carry out the annual check

ADDRESSED Carbon Monoxide gas sensor for Residential and Tertiary use CO250/duct

Power supply:	12 VDC ± 10%
Power on demand:	1W max @13,8V
Relay Alarm in change:	10 SELV
Fault Relay:	10 A 250V SELV
Sensor:	Electrochemical Cell
Operating range select.:	from 0 to 5000ppm
Data transmission signal:	**RS485 prot. ModBus RTU**
Alarm Threshold:	300ppm
Pack and Degree protection:	Aluminum IP66
Service Port:	**Present**
Dimensions:	100x100x60
Rod size:	200x20 mm
Flange size:	60 mm
Packaging dimensions:	160x120x350
Weight:	760 grammes
Compatible unit:	**BXI32**

The stand-alone **CO250/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 **TS1008** (see page 23) instrument, which also serves to carry out the annual check

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

Il 2 GD Ex d tD IIC T6 X -10 <T$_{amb}$ < +60°C

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 self-diagnosis, 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 23) instrument, which also serves to carry out the annual check

Power supply:	12 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, 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	Gas Type	Sensor	Working range	Temp.
SGI895met	**Methane**	Catalytic	LEL 0-100%	-10+50°C
SGI895gpl	**LPG**	Catalytic	LEL 0-100%	-10+50°C
SGI895idr	**Hydrogen**	Catalytic	LEL 0-100%	-10+50°C
SGI895amt	**Ammonia Toxic**	Electrochemical	LEL 0-100%	-10+50°C
SGI895ace	**Acetylene**	Catalytic	LEL 0-100%	-10+50°C
SGI895vbe	**Gasoline**	Catalytic	LEL 0-100%	-10+50°C
SGI895alc	**Alcohol**	Catalytic	LEL 0-100%	-10+50°C
SGI895ara	**White Spirit**	Catalytic	LEL 0-100%	-10+50°C
SGI895eth	**Ethanol**	Catalytic	LEL 0-100%	-10+50°C
SGI895act	**Acetone**	Catalytic	LEL 0-100%	-10+50°C
SGI895hex	**Hexane**	Catalytic	LEL 0-100%	-10+50°C
SGI895eta	**Ethyl Acetate**	Catalytic	LEL 0-100%	-10+50°C
SGI895co	**Carbon monoxide**	Electrochemical	300 ppm	-10+50°C
SGI895clo	**Chlorine**	Electrochemical	10 ppm	-10+50°C
SGI895h2s	**Hydrogen Sulphite**	Electrochemical	100 ppm	-10+50°C
SGI895no2	**Nitrogen dioxide**	Electrochemical	100 ppm	-10+50°C
SGI895 O$_2$	**Oxygen**	Optical fluorescenze	Deficien.-Excess in %	-10+50°C
SGI895 ac	**Carbon dioxide**	Infrared rays	from 1.5% to 20%	-10 + 50 ° C

Code **PRES3B** Cable gland in ATEX Chrome Steel 3/4 - in 10-piece pack.

GAS SAFETY DEVICES

FS012M - FS024M - FS230M Flashing Siren

Power Supply:	230/240 VAC 50/60 Hz.
Power Demand:	9 W @ 230V
On request:	12-24V cc
Power Demand:	118dB a 100cm
Frequency Sound:	**1 Hz**
Timer:	Built-in, ON/OFF
Degree of Protection:	IP54
Size:	135x90x45
Packaging:	168x120x60
Weight:	300 grams about
Colors On Request:	white, green, yellow, blue

FS230M 230V ac
FS012M 12V cc
FS024M 24V cc

The new Flashing Siren **" FS Series"** is born from the elegance and prestige that has always distinguished **BEINAT S.r.l.**
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:	240V 3A
Contact N.A.:	on demand N.C.
Protection:	IP55
Size:	112x50x37
Packing:	197x122x67
Weight:	250 gr about.

PAM-NA
PAM-NC

Expansion Card

CARD03 Electronic Daughter Board for Gas Probes

Adaptable	SG580, SGM533, SG800
Power Supply:	Through the probe
1 Relay:	Fault
1 Relay:	Pre-alarm
1 Relay:	Main Alarm
Installation:	Quick push-in
Size:	60x20 mm
Weight:	10 grams about
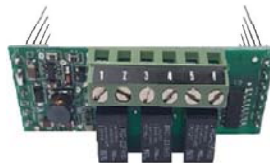
Electronic board for possible remote connection with Relays.

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:	BX308xp-BX316xp
Communication:	Serial
Power supply:	Through control unit
Maximum load:	10A resistive for relays
Relay:	4, one for eventuality
Installation:	Quick coupling
Dimensions:	105x54
Weight:	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	BX308xp-BX316xp
Converter	16 probes
Installation:	Quick coupling
Dimensions:	105x54
Weight:	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.

follows Expansion Card

### Expansion Electronic Card for Control Units CARD-TX4R

Adaptable	BXI32
Communication:	**Serial RS485 Modbus RTU**
Power supply:	12 VDC
Maximum load:	10A resistive by relay
Relay	4, one for eventuality
Installation:	At sight
Dimensions:	105x54
Weight:	20 grammes

The **CARD0-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.

Addressing Form CARD -MODBUS

Adaptable:	Beinat Equipment
Communication:	**Serial RS485 Modbus RTU**
Power supply:	from motherboard
Installation:	At sight
Dimensions:	105x54
Weight:	20 grams approx
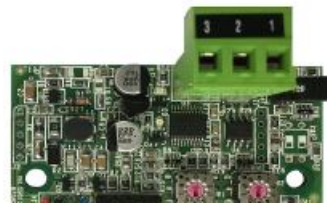
CARD01 Electronic Daughter Board for Detectors

CARD01
is an electronic relay expansion board.
Connecting it to a fire detector, you get a 1 service relay.
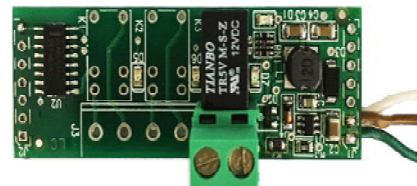
Probe replacement part

Spare part Sensor Head

Power supply:	Via probe

HE55es IP55
HE65es IP65
HEATes ATEX
HECO65 IP55
HE55O2 IP55

IP55   **IP65**   **ATEX**

Case containing the Gas Detection testing kit

NOTE
Pre-calibrated cylinders inserted into the KIT have been calculated for GAS Methane and / or GPL

Composition 3- Code VLG50	Composition 2- Code VLG80	Composition 1- Code VLG100
1 briefcase	1 briefcase	1 briefcase
1 bottle (de fault gas methane)	1 bottle (de fault gas methane)	1 bottle (de fault gas methane)
1 dispensing valve VL01	1 dispensing valve VL01	1 dispensing valve VL01
2 adaptors	2 adaptors	2 adaptors
1 mt of tube	1 mt of tube	1 mt of tube
	1 TS1008	1 TS1008
		1 Printer

Calibrated spray cans for testing gas detectors of 12 lt

BM101 Methane 12 lt
BM102 LPG 12 lt
BM103 CO 98ppm 12 lt
BM104 CO 300ppm 12 lt
BM105 Hydrogen 12 lt
BM106 Acetylene 12 lt   *
BM107 Acetone 12 lt   *
BM116 Freon R410a 12 lt
BM117 Freon R134a 12 lt
BM118 Freon R404 12 lt
BM119 Freon R407 12 lt
BM121 Oxygen at 18%   *
BM122 Toluene   *
BM124 Oxygen at 23,5%
BM125 Anidride Carbonica

VL101 Distributing Valve

Calibrated spray cans for testing gas detectors of 34 lt

BM109 Hydrogen Sulphide H$_2$S   **
BM108 Cloro   **
BM123 Ammonia Toxic   **
VL138 Distributing Valve   ++

N.B. The **Calibrated spray** marked with an **1 asterisk**
will be supplied with a 30-day order date

N.B. The **Calibrated spray** marked with an **2 asterisk**
will be supplied with a 60-day order date

In order to protect the gas detection capsules, **BEINAT Srl** 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 75ml

TS1008 Test and control equipment for probes and detectors

Powered by battery Alkaline:	AAA 1,5 V
Consumption during other detection:	3 mA
Consumption during printing:	4 mA
Battery autonomy according to functions:	**380 hour approx**
Battery charging and consumption control:	On Display
Alphanumeric display:	Alpha numeric
Events storage:	**one** until it is turned on
Auto power off:	After 1 hour of stand-by
Operating temperature:	Built-in -10°C to + 45°C
Working humidity not condensed:	From 0 to 90%
Print:	**By IR port**
Electromagnetic Compatibility:	C E
Dimensions:	60 * 140 *24mm
Weight:	180g approx

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

TS1008
CSRTS replacment cable

From the experience since 40 years and the requirements of the rules of the test, **BEINAT Srl** has built a new tool Tester **TS1008** 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 **TS1008**, 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.
7) How many times the correction has been made.
8) How many operating days remain before the substitution of the sensing element.

Portable thermal printer

Primary power supply:	7,5 VDC.
Battery Type:	AA 1,5V
Battery life:	About 1 hour
Absorption:	925mA
Transmission:	IR **Infrared 940 nm, 33 kHz**
Protocol:	**8 bit (1 start, 4 error)**
Flash memory:	32K
Reception buffer:	128 bytes
End paper sensors:	Built in
Paper size:	57,5mm 1mm
Operating temperature :	-5°C ÷ + 50°C
Operating Humidity	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 impact-based systems.

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

Portable Gas Detector Purchase and use it AMICO right away

Courtesy programs
Room temperature
Humidity rate present

Unfortunately, it is known that every year many young and old people die contaminated by this insidious and silent gas.

What seems strange is that no media informs that on the market there are specific and high-level electronic devices able to detect this dangerous gas.

The carbon monoxide is a gas that develops from the combustion of organic material such as methane gas, coal, wood, pellets, bio-alcohol. *Not to be confused with the gas leak.*

In a closed environment **it can be generated by any combustion plant, such as boilers, gas stoves, fireplaces, braziers, generators** with petrol engine.

Normally, if the combustion is perfect, risky monoxide levels do not develop. But just enough variables to make it dangerous.

For example, do not close the ventilation holes provided in the rooms with the gas stove.

Never light braziers in a closed environment.

For gas boilers and fireplaces in the house, in addition to the obligatory periodic inspection, you should check that the draft of the smoke is not obstructed by dirt and bird nests.

If you light stoves or fireplaces in a room without an air hole, ventilate by opening the window once in a while.

Also because modern windows, which seal perfectly, can cause a lack of oxygen.

The carbon monoxide is a silent killer: it is odorless, colorless and causes symptoms such as headache, nausea, tachycardia,
attributable also to the fluence.

Gas Sensors Controller CHECKER-24

Today with CHECKER-24 you can run,

Testing of Electrical Connections of all GAS probes with BEINAT S.r.l.

Verification of the operation of all GAS probes with the BEINAT S.r.l.
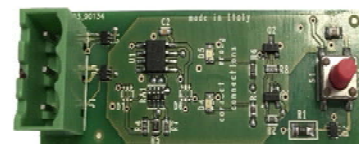
Portable gas concentration gauge NASE25/K

LiPo battery power supply:	3.7 V.cc incorporated
Test consumption:	80 mA
Standby consumption:	150uA
Battery life:	About 8 hours
Battery charger:	Via PC USB port
Battery charger:	External 5 VDC 350mA
Recharge time:	7 hours
Explosive gas report referred to methane	
Detection sensor:	Catalytic
Detection range:	from 3% to 100% LEL
Resolution:	1% FS
Response time:	0.5 "
Flexible Length:	**25 cm**
Multi-color LCD display:	Current view
Measurements:	65x135x35
Weight:	250 gr

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.l.** with its prestige that for over forty years distinguishes it and from the concept *"equipment fitness"* has created the portable gas leak detector **NASE25/K**
Portable Explosive Gas Concentration in the ambient Gauge
Its detection accuracy is due to the Catalytic sensor.
In fact the sensor is managed by a microprocessor whose function is to perform a self-calibration, to allow maximum precision during the measurement.
During the measurement of the dispersed gas the instrument emits an acoustic signal, modulated in frequency according to the gas quantity found, and to read directly on the display the concentration of gas present in the ambient.
Reading from **5% to 100% of LEL.** with a resolution of **1% of LEL.**
The **NASE25/K** reading can also be performed in a low lighted environment as the display is backlit.

Portable gas leak detector NASE25/S

Power Supply	3 VDC ± 10%
Type of batteries	Alkaline AAA
Battery duration	Approx. 6 hours
Explosive gas report referred to methane	
Detection sensor:	Semiconductor
Detection range:	from 3% to 100% LEL
Resolution:	1% FS
Response time:	0.5 "
Flexible Length:	**25 cm**
Multi-color LCD display:	Current view
Measurements:	65x135x35
Weight:	250 gr

Portable gas leak detector NASE30/S

LiPo battery power supply:	3.7 VDC incorporated
Test consumption:	80 mA
Standby consumption:	150uA
Battery life:	About 8 hours
Battery charger:	Via PC USB port
Battery charger:	External 5 VDC 350mA
Recharge time:	7 hours
Explosive gas report referred to methane	
Detection sensor:	Semiconductor
Detection range:	from 3% to 100% LEL
Resolution:	1% FS
Response time:	0.5 "
Flexible Length:	**25 cm**
Multi-color LCD display:	Current view
Measurements:	65x135x35
Weight:	250 gr

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The **BEINAT S.r.l.** with its prestige that for over forty years distinguishes it and from the concept *"equipment fitness"* has created the portable gas leak detector **NASE25/S**
 Explosive Gas Detection
The modernity of this instrument and its precision in the detection are due to BEINAT's research in the gas detection sector
Reading from **3% to 100% of LEL.** with a resolution of **1% of LEL.**
The **NASE25/S** reading can also be performed in a low lighted environment as the display is backlit.

Test Pressure Gauge MME500

Battery power supply:	3 VDC ± 10%
Type of batteries:	AAA alkaline
Battery life:	about 80 hours
Pressure gauge	
Measuring range in mbar:	from 0 to 500 mbar
Resolution:	1 mbar
Pressure overload:	3 bar
150mbar scale accuracy:	1% F.S
DisplayLCD:	Numeric alpha
Measurements:	65x135x35
Weight:	250 gr
Faux leather bag:	Including

The **MME500** pressure gauge is a high-tech product that embodies the innovation and elegance of the **BEINAT S.r.l.** His best privilege is to assist the installer in his work both during the installation of new systems and in the testing of existing systems.
Pressure gauge
It is a **DIFFERENTIAL PRESSURE GAUGE**, **with a range from 0 to 500 mbar,** small portable, with an easy use. Precision and autonomy make this instrument indispensable for testing and controlling heating systems and more.
The pressure gauge is calibrated with sophisticated testing machines, so its measurement is very precise. For example, it is calibrated to measure:
    Gas pressure in the network
    Pressure in the combustion chamber
    Chimney efficiency

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).

II 2 G Ex ib IIB T4 -20°C ≤ Ta ≤ +60°C

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 999mmH$_2$O
2nd measurement range: from 0 to 150mbar
Pressure overload: 7000mmH$_2$O

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
Response time: 1"
Thermometer. NTC temperature detector: from -50 to +100 °C
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
Backlit display with three colors according to the need, among which the Alarm : LCD 3 digit
Operating temperature: -20° C ÷ + 60° C
Conformity with safety and health rules reference: EN60079-0:2012, EN60079-11:2012
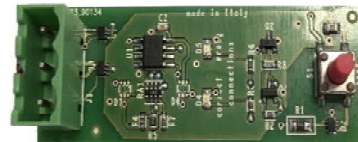Dimensions and weight: 60 * 140 *24mm 70gr

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Gas Sensors Controller   CHECKER-24

Today with CHECKER-24 you can run,

Testing of Electrical Connections of all GAS probes with BEINAT S.r.l.

Verification of the operation of all GAS probes with the BEINAT S.r.l.

BEINAT

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	6ª species > of 35kW for external pipes
UNI 11528	6ª species > of 35kW for underground pipes
UNI 11528	7ª species > of 35kW for external pipes
UNI 11528	7ª species > of 35kW for underground pipes

1000 mbar - Negative input

1000 mbar - Positive input

100°C Temperature sensor

Multifunctional touch screen

Power ON/OFF

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 bar
Temperature up to 500 ° C

Pressure recorder in gas pipes
Registration of a networked pressure

SETTINGS
Set time and date
Set technician data
Entry phonebook, customer data, even from memory
Change password o disabled
Enable or disable of barometric pressure
The battery status read control
Selection of the graphic display
Connection settings with PC
Set language: **IT-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

Accessories for pressure gauge MD80 / MD70

TR10	External Sensor 10 bar
TR25	External Sensor 25 bar
TR40	External Sensor 40 bar
TR45	External Sensor 45 bar
PT100	Temperature probe 450°

Pressure sensor   **Probes of Temperature**

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 tempera-ture
	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 **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

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.

Smoke

Temperature

Soket

Fire Probes Technical Specifications

Power Supply:	12/24VDC +/-10%
Power Demand:	about 100 μA
Power Demand:	about 50mA
Protected area:	at 5 m 110 m²
Protected area:	at 4 m 120 m²
Protected area:	at 3 m 130 m²
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

Fire, Smoke, and Temperature Probes Series "ECO"

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 temperatu-re, according to the selection. Installation is very easy with a bayonet system.

Smoke   Temperature   Soket   Soket with relay

Power Supply:	12÷24 VDC
Power Demand:	130 μA
Protected area a 5 m:	110 m²
Protected area a 4 m:	120 m²
Protected area a 3 m:	130 m²
Umidità di funzionamento:	0-90%
Degree of Protection:	IP20
Dimensions:	100 mm

EC500 Optical smoke
EC570 Fixed temperature 78°C
**EC540 Temperature increase**

ZFC200 Probe socket
ZFR250 Probe socket   with relay

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 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.

Switching power supplies

Switching Power Supplies
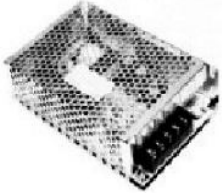
These power supplies are compact and highly efficient in providing 12Vdc at constant voltage.
They are used when the instruments do not have enough power to control solenoid valves, sirens or other components. Moreover, they are used to recharge buffer batteries.

Technical Specifications	AS125	AS160	AS100
Power Supply:	From 110/240 VAC 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 panel		
Size:	97x97x35	159x97x38	199x98x38

Technical Specifications	AS135	AS175
Power Supply:	From 110/240 VAC 50/60 Hz.	
Output voltage:	15V.cc	15 V.cc
Current supplied:	2,4 A(35W)	5A (75W)
Assembly:	Back of the panel	Back of the panel
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 VAC 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

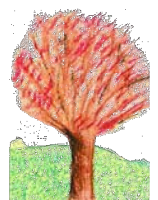# Accumulators

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	12 VDC	12 VDC
Load capacity:	1,2 Ah	2 Ah	6 Ah
Self-discharge at 25°C:	After 6 months		
Terminals:	AMP faston type 187	AMP	
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

EN 50194	EN 61241-1	
EN 50291	EN 50270	**MARKS**
CEI 216-3	UNI 7129	**Security version**
EN 50270	UNI 11137	**Anti-explosion device BEINAT Srl**
DM 01/02/1986	UNI 10435	
EN 60079-0	UNI 11528	Ex d IIC T6 (85°C)
EN 60079-1	UNI 11528	Ex tD A21 IP66 85° C
EN 60079-2	UNI 11147	**EUM1 10 ATEX 0169**
EN 61010-1	IEC 61010_1	
EN 61241-0		**EX 0477 II2GD**

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.l.** 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.l.** 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.l.** may vary due to suppliers non-compliance and are therefore subject to change at any moment.

BILLING - **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.l.**

REPAIRS - The only authorized repairs on **BEINAT S.r.l.** 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.l.** products is, except for written exceptions, three years from manufacturing date.

This warranty is void when the malfunctioning is caused by neglect, connection errors, tampering, and use in unsuitable environmental conditions.

INSURANCE - All devices manufactured by **BEINAT S.r.l.** 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.l.** will charge the customer with the passive interests at the current bank rate. In case of non payment BEINAT S.r.l. reserves the right to take the necessary legal actions.

MODIFICATIONS - **BEINAT S.r.l.** 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.l.**

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.l.** 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.

BEINAT S.r.l.

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Years

BEINAT S.r.l.
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ISO 9001:2015

MADE IN ITALY
100 % QUALITY