Portable Gas Detectors

Single & Multi gas

be safe

Designed and Made in ITALY



seitron Americas

be safe

Single
Gas Detector

AVAILABLE GASES

CO | O2 | H2S | SO2

APPROVED FOR ATEX ZONE 0
For safe operation in explosive environments

INCREASED SAFETY
Built-in audible, vibration and visual alarms for an immediate danger warning.

SOLID AND RELIABLE
The rugged and solid housing ensures precise and safe detection in all environments.

CONTINUOUS PROTECTION
Designed to guarantee continuous operation for 24 months without any need to replace sensors or battery.

EASY TO USE
Designed from the ground up to ensure the greatest ease of use and intuitiveness possible.

NCI National Comfort Institute, Inc.



Be Safe SG is the new portable single gas detector, designed to be compact, robust and easy to use. Configurable for 1 gas including O2, CO, H2S or SO2, it can be used in hazardous areas with explosion risk.

Portable Gas Detector
- 24 months of continuous operation
- Reliable detection of low concentrations of toxic and flammable gases
- Solid and robust
- Integrated alligator clip
- Intrinsically safe
- Self-test function
- Event logging download

Be Safe SG Kit includes:
- Portable gas detector
- Calibration adapter
- Quick Guide
- Test report
- Declaration of conformity ATEX and IECEx

Technical Features

Dimensions:	89 x 51 x 28 mm / *3.5 x 2 x 1.1 "*
Weight:	106 g / *3.7 oz*
Sensor Type:	Electrochemical sensor
Display:	Liquid Crystal Display (LCD)
Communication:	Infrared (with **Be Safe SG IR-Link** accessory)
Ingress Protection:	IP67
Operating Humidity:	5 – 95% RH (Non condensing)
Battery:	Lithium battery, 3.6 Vdc, 1.65 Ah
Operating Duration:	24 months of operation (with 2 minutes of alarms per day)
Alarms:	Acoustic: 95 dB @ 10 cm Visual: LED Vibration: Vibrating motor
Alarm Levels:	Low and High
Event Log Storage:	Last 30 events
Compliance:	EN 60079-0:2018 - IEC 60079-0:2017 EN 60079-11:2012 - IEC 60079-11
Certifications:	**ATEX**: II 1G Ex ia IIC T4 Ga (Certificate: CML 24ATEX 2184) **IECEx**: Ex ia IIC T4 Ga (Certificate: IECEx CML 24.0071)

Gas	Measuring Range	Low Level Alarm (*)	High Level Alarm (*)	Operating T°	T90
O2	0 .. 25% vol	19.5% vol	23.5% vol	- 30 .. 60 °C *- 22 .. 140 °F*	*< 15 sec*
CO	0 .. 300 ppm	9 ppm	35 ppm	- 40 .. 60 °C *- 40 .. 140 °F*	*< 30 sec*
H2S	0 .. 100 ppm	10 ppm	15 ppm	- 40 .. 60 °C *- 40 .. 140 °F*	*< 30 sec*
SO2	0 .. 50 ppm	5 ppm	10 ppm	- 40 .. 60 °C *- 40 .. 140 °F*	*< 30 sec*

(*) Values refer to default alarm levels. It is possible to modify alarm levels by using Be Safe SG IR-Link and dedicated PC software.

Accessories

Be Safe SG IR-Link: Infrared transmitter with USB cable, for managing the device via **Be Safe SG IR-Link Manager** PC software.



Be Safe SG Docking Station: Multi-device docking station for *Be Safe SG*, to perform simultaneously bump tests and calibration of up to 4 personal gas detectors, using the **Be Safe SG Docking Station Manager** PC software.



be safe
Multi
Gas Detector

AVAILABLE GASES

O2 | CO | H2S | LEL

SO2 | NH3 | NO | NO2

H2 | CL2 | Dual CO+H2S



APPROVED FOR ATEX ZONE 0
For safe operation in explosive environments

MULTIPLE APPLICATIONS
Designed and developed to protect users in different industries and enviromental conditions.

SIMULTANEOUS GAS DETECTION
Possibility to detect simultaneously up to 4 gases, according to the configuration requested by the user.

SAFETY AT A GLANCE
Immediate warning of alarm status thanks to visual, audible and vibrating indicators.

RECHARGEABLE BATTERY
Li-Ion rechargeable battery to keep the device running for up to 18 hours, with short charging time.

EASY TO USE AND TO MAINTAIN
Designed to grant ease of use and to allow simple and fast daily maintenance (Bump Test).

Be Safe MG is the new portable multi-gas detector to be used in hazardous areas (ATEX Zone 0), integrating safety and periodic maintenance. Be Safe MG can be configured with up to 4 sensors, among a selection of more than 10 gases, according to user needs.

Portable Gas Detector
- Customizable configuration with up to 4 gases
- Intrinsically Safe
- IP67 Protection Rating
- LCD display for concentration values readout
- Audio, visual and vibration alarm
- Integrated alligator clip
- Fast Bump Test and Calibration Kit

Be Safe MG Kit includes:
- Portable gas detector
- Docking station with wall-mount accessory
- Calibration adapter and gas hose
- USB cable for battery charging and SW connection
- Quick Guide
- Test report
- Declaration of conformity ATEX and IECEx

Gas sensors	Be Safe MG O2 LL, LEL, CO, H2S	Be Safe MG O2 LL, LEL, CO	Be Safe MG O2 LL, LEL
O2 Longlife (0 .. 25% vol)	✓	✓	✓
LEL (CH4) (0 .. 5% vol / 0 .. 100% LEL)	✓	✓	✓
CO (0 .. 1.000 ppm)	✓	✓	
H2S (0 .. 100 ppm)	✓		

Other configurations available on request with choosing among 4 gas sensors.





Detected Gas	Sensor Type	Measuring Range	Resolution	Response Time (t90)
O2 Long Life	Electrochemical	0 .. 25% vol	0.1% vol	<10 sec
CO	Electrochemical	0 .. 1,000 ppm	1 ppm	<15 sec
H2S	Electrochemical	0 .. 100 ppm	0.1 ppm	<15 sec
LEL (Combustibles)	MEMS	0 .. 5% vol 0 .. 100% LEL	0.01 % vol 1% LEL	<15 sec
SO2	Electrochemical	0 .. 100 ppm	1 ppm	<20 sec
NO2	Electrochemical	0 .. 150 ppm	1 ppm	<30 sec
NO	Electrochemical	0 .. 250 ppm	1 ppm	<30 sec
NH3	Electrochemical	0 .. 100 ppm	0.1 ppm	<15 sec
H2	Electrochemical	0 .. 1,000 ppm	1 ppm	<15 sec
CL2	Electrochemical	0.. 20 ppm	0.1 ppm	<15 sec
Dual CO + H2S	Electrochemical	CO: 0 .. 1.500 ppm H2S: 0 .. 500 ppm	1 ppm	<15 sec

Technical Features

Size (HxWxD):	140 x 70 x 38 mm / *5.5 x 2.8 x 1.5 "*
Weight:	280 g / *9.8 oz*
Durability:	Drop test from 1 m / *3 ft* according to EN60079-0 (2018)
Ingress Protection:	IP67
Working Temperature:	-20 .. +55 °C / *-4 .. +131 °F*
Working Humidity:	5 - 95% RH (non-condensing)
Typical Battery Life:	up to 18 hours (dependent on sensor configuration) @ -20 °C / *-4 °F*
Alarms:	*Audio*: 90 dB @ 30 cm *Visual*: LED *Vibration*: Vibrating motor
Alarm levels:	Low, High, STEL (*Short Term Exposure Limit*) and TWA (*Time-Weighted Average*)
Event Logging:	408 days based on 8 hours shifts and 40 daily events
Data Logging:	22 days based on 8 hour shifts every 10 seconds logging
Conformity:	EN 60079-0:2018 - IEC 60079-0:2017 EN 60079-1:2014 - IEC 60079-1:2014 EN 60079-11:2012 - IEC 60079-11:2023
Certifications & Approvals:	**ATEX**: II 1G Ex da ia IIC T4 Ga (configuration with LEL sensor) II 1G Ex ia IIC T4 Ga (configuration without LEL sensor) (Certificate: TUV IT 24 ATEX 0162X) **IECEx**: Ex ia IIC T4 Ga (Certificate: IECEx TPS 23.0053X)

Code	Description
Docking Station (AMDS01)	Charging, communication, bump test and calibration station for Be Safe MG
AMSD01	Wall-mounted support for Be Safe MG docking station (AMSD01)
AMGC01	Calibration cap with gas tubing (L = 50 cm) for Be Safe MG
AMAF01	External dust filter for Be Safe MG
AMKP01	Calibration cap with gas tubing (AMGC01) and external dust filter (AMAF01) for Be Safe MG
AMKF01	Replacement filters (8 units) for external dust filter (AMAF01)
AMPM01	Manual aspiration pump kit for remote sampling. The kit includes: aspiration bulb complete with silicone tube (L = 30 cm / 1 ft) and sampling hose (L = 3 m / 10 ft)



AMPM01
Manual aspiration pump kit for remote sampling



Disclaimer: This document contains only a general description of uses, performance capabilities and compliances of the products. The user must refer to certifications and specifications on product marking. Due to continuous product improvement, specifications are subject to change without prior notice. The user shall always refer to the latest User Manual available, prior to using the product.

MAIN APPLICATIONS
Be Safe by industry

- Sewerage and Underground Safety
- Power Generators
- First Response and Firefighting
- Chemical Process Industry
- Pharmaceutical Industry
- Aerospace Industry
- Steel Mills and Heavy Industry
- Petrochemical Industry
- Biogas Plants
- Food and Beverage Production
- Civil Infrastructure Sites
- Oil Refineries








APPLICATIONS BY GASES
Business Opportunity

Agriculture	LEL, O2, NH3, CO, H2S, NO, NO2	
Aviation	LEL, O2, CO	
Chemical	LEL, O2, NH3, CO, H2S, SO2	
Fire Service	LEL, O2, CO, H2S	
Food & Beverage	O2, NH3, CO	
Iron & Steel	LEL, O2, CO, H2S, NO, NO2, SO2	
Oil & Gas Petrolchemical	LEL, O2, NH3, CO, H2S	
Pharmaceutical	LEL, O2, NH3, H2S, SO2	
Semiconductor	NH3, NO, NO2	
Utilities	LEL, O2, CO, H2S, NO, NO2, SO2	
Water & Waste-water Treatments	LEL, O2, NH3, CO, H2S, SO2	
Welding	LEL, O2, CO, NO, NO2	
Paper	CL2, H2S, SO2	

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