

# Portable Gas Detectors

Single & Multi gas

 **be safe**

Designed and Made

in  
**ITALY**



 **seitron**  
Americas

# **be safe**

## Single Gas Detector

### AVAILABLE GASES



### 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.



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
- Approved for **ATEX Zone 0**



### 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 <b>Be Safe SG IR-Link</b> 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<br>Visual: LED<br>Vibration: Vibrating motor  |
| Alarm Levels:       | Low and High  |
| Event Log Storage:  | Last 30 events  |
| Compliance:         | EN 60079-0:2018 - IEC 60079-0:2017<br>EN 60079-11:2012 - IEC 60079-11:2011  |
| Certifications:     | <b>ATEX:</b> II 1G Ex ia IIC T4 Ga (Certificate: CML 24ATEX 2184)<br><b>IECEX:</b> 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<br>- 22 .. 140 °F | < 15 sec |
| CO  | 0 .. 300 ppm    | 9 ppm               | 35 ppm               | - 40 .. 60 °C<br>- 40 .. 140 °F | < 30 sec |
| H2S | 0 .. 100 ppm    | 10 ppm              | 15 ppm               | - 40 .. 60 °C<br>- 40 .. 140 °F | < 30 sec |
| SO2 | 0 .. 50 ppm     | 5 ppm               | 10 ppm               | - 40 .. 60 °C<br>- 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.



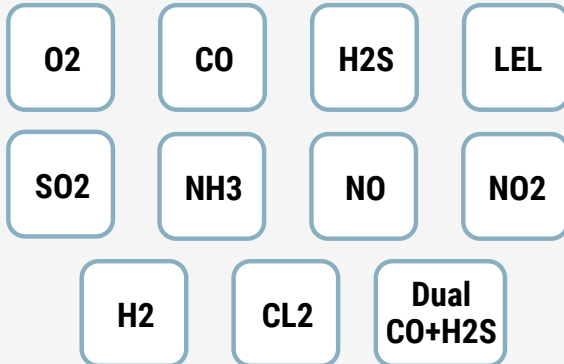
**Be Safe SG Docking Station:** Multi-device docking station for Be Safe SG, to perform simultaneously bump tests and calibration of up to 4 personal gas detectors, using the **Be Safe SG Docking Station Manager** PC software.





## Multi Gas Detector

### AVAILABLE GASES



#### MULTIPLE APPLICATIONS

Designed and developed to protect users in different industries and environmental 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
- Approved for **ATEX Zone 0**



#### 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

| Caratteristiche                         | Be Safe MG<br>O2 LL, LEL, CO, H2S | Be Safe MG<br>O2 LL, LEL, CO | Be Safe MG<br>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<br>(Combustibles) | MEMS            | 0 .. 5% vol<br>0 .. 100% LEL            | 0.01 % vol<br>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 +<br>H2S      | Electrochemical | CO: 0 .. 1.500 ppm<br>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:                     | <i>Audio:</i> 90 dB @ 30 cm<br><i>Visual:</i> LED<br><i>Vibration:</i> Vibrating motor  |
| Alarm levels:               | Low, High, STEL ( <i>Short Term Exposure Limit</i> )<br>and TWA ( <i>Time-Weighted Average</i> )  |
| 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<br>EN 60079-1:2014 - IEC 60079-1:2014<br>EN 60079-11:2012 - IEC 60079-11:2023  |
| Certifications & Approvals: | <b>ATEX:</b> II 1G Ex da ia IIC T4 Ga (configuration with LEL sensor)<br>II 1G Ex ia IIC T4 Ga (configuration without LEL sensor)<br>(Certificate: TUV IT 24 ATEX 0162X)<br><b>IECEX:</b> 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



## Main Applications

- Steel mills and heavy industry
- Petrochemical industry
- Biogas plants
- Food and beverage industry
- Civil infrastructures and Construction sites
- Power generators
- Sewage systems and underground safety
- First aid and firefighting
- Chemical industry
- Pharmaceutical industry
- Waterwater Facilities
- Aerospace industry



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