

## PORTABLE SINGLE-GAS DETECTOR

# RBR-1x

Single-gas portable detector, available in O<sub>2</sub>, CO, LEL or H<sub>2</sub>S versions

The **RBR-1x** portable single-gas detector is a compact, high-performance device designed to monitor individual concentrations of oxygen (O<sub>2</sub>), carbon monoxide (CO), combustible gases (LEL) or hydrogen sulfide (H<sub>2</sub>S).

It incorporates high-sensitivity sensors, ensuring reliable and accurate performance even in the most demanding environments.

Featuring a compact and rugged design, the device offers IP67 protection and an explosion-proof rating of Ex d IIC T3, making it a reliable solution for use in harsh and hazardous conditions.

## AVAILABLE VERSIONS

 Oxygen (O<sub>2</sub>)

Carbon monoxide (CO)

Combustible gases (LEL)

 Hydrogen sulfide (H<sub>2</sub>S)


## GAS CONFIGURATION

## Sensor specifications

| Sensor                                   | Range        | Resolution | Response time |
|------------------------------------------|--------------|------------|---------------|
| Oxygen (O <sub>2</sub> )                 | 0 – 30% vol  | 0.1% vol   | T90 < 20 s    |
| Carbon monoxide (CO)                     | 0 – 1999 ppm | 1 ppm      | T90 < 30 s    |
| Combustible gases (CH <sub>4</sub> /LEL) | 0 – 100% LEL | 0.1% LEL   | T90 < 30 s    |
| Hydrogen sulfide (H <sub>2</sub> S)      | 0 – 200 ppm  | 0.1 ppm    | T90 < 30 s    |

**IP67**

Ingress protection

**Ex d IIC T3**

Explosion-proof rating · CE

**Up to 10 h**

Continuous operation

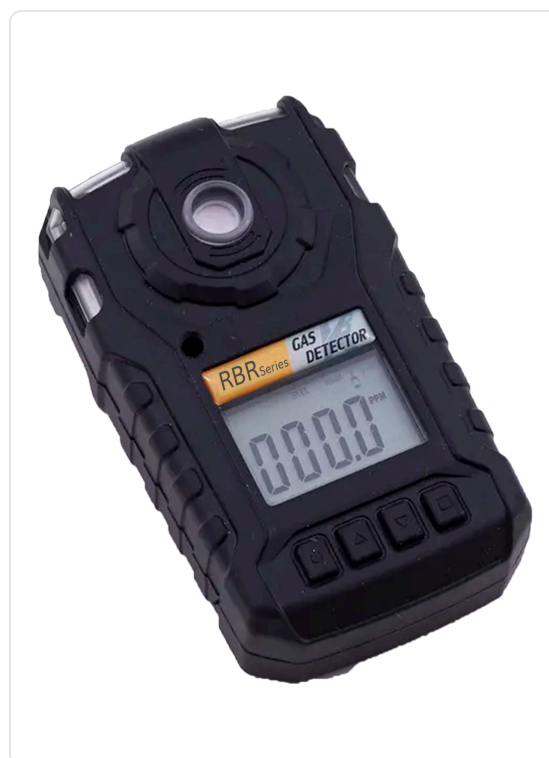
**120 g**

Device weight

**TECHNICAL SPECIFICATIONS**

# General specifications

|                         |                                       |
|-------------------------|---------------------------------------|
| Battery type            | Rechargeable 3.7 V lithium battery    |
| Battery life            | Up to 10 hours (continuous operation) |
| Data download interface | USB                                   |
| Display                 | LCD with dual 2-digit indicators      |
| Audible alarm           | 90 dB                                 |
| Alarm type              | Audible and visual                    |
| Operating temperature   | –20 °C to +50 °C                      |
| Relative humidity       | 15% – 90% (non-condensing)            |
| Ingress protection      | IP67                                  |
| Explosion-proof rating  | Ex d IIC T3                           |
| Detection method        | Diffusion                             |
| Housing                 | ABS with anti-slip silicone           |
| Weight                  | 120 g                                 |
| Certification           | CE marked                             |


**CALIBRATION AND USE**

- ! Calibration is recommended after 6–12 months of use.
- ! Calibration must be performed by qualified personnel only.
- ! It is the user's responsibility to determine the suitability of this device for the intended application.
- ! Neither the manufacturer nor the seller shall be liable for any personal injury, loss or property damage resulting from improper use of this device.

**SENSOR TECHNOLOGY POWERED BY**
