

# Gas monitor

## Single Gas Detector

IP65/ IP 67  
CE/ CMC/ Ex/ MA



**fresenius**  
Umwelttechnik

## Single Gas Detector

The Single Gas Detector is a gas detector designed for mobile measurements in harsh or noisy environments. Its powerful sensors can be calibrated to individual gas measurement requirements. Its robust housing protects it from dust and water jets.



## Usage

The Single Gas Detector is available in up to 28 different configurations (see page 3). The measurement is continuous. When the defined alarm thresholds are reached, the device warns you by a red flashing LED, noticeable vibration and an acoustic signal with a volume of 90 dB. Therefore the Single Gas Detector is ideal for loud, rough environments.



### Contact

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## Advantages

- Worldwide recognized, highly sensitive sensors
- Lightweight and compact design
- Simplified operation
- Audio-visual alarm (red warning light, 90dB audio signal)
- Vibrating alarm ideal for noisy environments
- Robust, vibration-proof housing
- 3.0 V lithium battery, which works continuously for about 24 months (non-alarming condition)
- Protection grade: Exib IIC T3 / IP65 (dustproof and protected against water jets from nozzles (Model A.)) / IP67 (dustproof and waterproof when temporarily submerged (Model B.))
- Certifications: CE, CMC, Ex, MA

No.	Gas	Detection range	Resolution $\pm 5\%$ (F.S)	Response time $t_{-90}$	Alarm points
1	PH <sub>3</sub>	0-20-200 ppm	0.1 ppm	≤ 90s	0.3/5 ppm
2	O <sub>2</sub>	0-25 Vol.-%	0.1 Vol.-%	≤ 20s	18.0/23.0 Vol.-%
3	CH <sub>4</sub> /EX	0-100% LEL	1 % LEL	≤ 30s	25.0/50 % LEL
4	CO	0-2000v ppm	1 ppm	≤ 60s	50/100 ppm
5	H <sub>2</sub> S	0-200 ppm	0.1 ppm	≤ 60s	10/20 ppm
6	Cl <sub>2</sub>	0-20 ppm	0.1 ppm	≤ 60s	1/10 ppm
7	NO <sub>2</sub>	0-200 ppm	0.1 ppm	≤ 60s	3/10 ppm
8	NO	0-1000 ppm	1 ppm	≤ 60s	25/50 ppm
9	SO <sub>2</sub>	0-200 ppm	0.1 ppm	≤ 60s	2/10 ppm
10	NH <sub>3</sub>	0-2000 ppm	0.1 ppm	≤ 150s	25/50 ppm
11	H <sub>2</sub>	0-2000 ppm	1 ppm	≤ 90s	50/100 ppm
12	HCN	0-200 ppm	0.1 ppm	≤ 200s	10/20 ppm
13	O <sub>3</sub>	0-1-5 ppm	0.01 ppm	≤ 120s	0.3/5.0 ppm
14	F <sub>2</sub>	0-1 ppm	0.01 ppm	≤ 60s	0.5/1.0 ppm
15	HF	0-10 ppm	0.1 ppm	≤ 60s	3/10 ppm
16	HCL	0-30-200 ppm	0.1 ppm	≤ 60s	5/10 ppm
17	HBr	0-30 ppm	0.1 ppm	≤ 60s	individuell
18	C <sub>2</sub> H <sub>4</sub> O	0-100 ppm	0.1 ppm	≤ 120s	1/10 ppm
19	COCl <sub>2</sub>	0-1 ppm	0.01 ppm	≤ 60s	0.1/0.5 ppm
20	SiH <sub>2</sub>	0-20 ppm	0.1 ppm	≤ 60s	1/10 ppm
21	GeH <sub>4</sub>	0-2 ppm	0.1 ppm	≤ 60s	individual
22	AsH <sub>3</sub>	0-1 ppm	0.1 ppm	≤ 60s	individual
23	ClO <sub>2</sub>	0-20 ppm	0.01 ppm	≤ 120s	0.1/10 ppm
24	N <sub>2</sub> H <sub>4</sub>	0-1 ppm	0.01 ppm	≤ 60s	individual
25	B <sub>2</sub> H <sub>6</sub>	0-0.5ppm	0.01 ppm	≤ 60s	individual
26	NH <sub>3</sub>	0-1000 ppm	1 ppm	≤ 90s	25/50 ppm
27	H <sub>2</sub>	0-4 ppm	0.01 Vol.-%	≤ 30s	1.00/2.00 Vol.-%
28	CH <sub>4</sub>	0-5 ppm	0.01 Vol.-%	≤ 30s	1.00/2.00 Vol.-%

## Single Gas Detector

Model A



Model B



### Technical specifications

Model:	Single Gas Detector	Model A	Model B
Measurable gas:	1	●	●
Sampling:	diffusion	●	●
Measuring range:	depending on gas, see p. 3	●	●
Measurement precision:	<b>± 5% (F.S)</b>	●	●
Alarm points:	depending on gas, see p. 3	●	●
Alarm mode:	Acousto-optic alarm and vibration	●	●
Druckverträglichkeit:	0,86 ~ 1,06 bar	●	●
Relative Humidity:	15-90% RH	●	●
Working Temperature:	-20 °C bis 55 °C	●	●
Power:	3V lithium battery	●	●
Time of operation:	2 years (non-alarming state)	●	/
	rechargeable battery	/	●
Case:			
Protection grade:	Exib. IIC T3 / IP65	●	
	Exib. IIC T3/ IP67	/	●
Dimensions:	56 W x 38 H x 109 L mm	●	/
	57 W x 32 H x 95 L mm	/	●
Weight:	120 g	●	●
Display:	LCD-Display	●	●
Handling:	buttons	●	●
Certification:	CE, CMC, Ex, MA	●	●