

## smartALERT // Technical Data

Gas warning device for industry and domestic applications



- Gas warning device based on infrared absorption technology
- Models for natural gas, liquid gas or CO<sub>2</sub>
- DIN EN 50194 compliant
- Integrated anti-tamper monitoring
- Simple and rapid installation
- Event-driven speech commands
- Valve-control on board
- Log book functionality
- Long working life (>10 years)
- Made in Germany

smartALERT is an innovative and thoroughly reliable gas warning device. With a highly sensitive IR sensor, smartALERT reacts to the lowest concentrations of gas and produces an alarm long before danger develops. IR measuring technology effectively eliminates irritating false alarms.

The gas alarm is divided into a pre- and main alarm and can be supplemented by additional alarms

The different alarm states are event-orientated and supported by clear speech announcements. In case of emergencies, users receive important information on preventing potential danger.

Simple assembly and an optional power plug means smartALERT can be installed and operational within minutes. An integrated anti-tamper monitoring system protects the device from wilful interference.

During the development of smartALERT particular attention was paid to the recommendations of DVGW-Arbeitsblatt G110 (German Gas and Water Association Worksheet G110), and on this basis, smartALERT has been independently checked and passed as CE and DIN EN 50194-conform for use in domestic homes.

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General features	
Gas:	natural gas (methane) / liquid gas (propane, butane) / carbon dioxide (CO <sub>2</sub> )
Measurement principle:	Infrared absorption (NDIR)
Measurement range:	0 to 100 % LEL / 0 to 1 Vol.-% (CO <sub>2</sub> )
Operating temperature:	-15 °C to 45 °C
Pressure:	800 to 1100 hPa
Humidity:	0 % to 95 % rel. humidity
Response time $t_{90}$ :	< 30 seconds
Warm-up time:	2 minutes
Working life:	10 years (depending on working environment)
Maintenance interval:	every 2 years (recommended)
Electrical data	
Power supply:	12 or 24 Volt DC
Electronics power consumption:	approx. 3 Watt
Output voltage:	12 or 24 Volt DC – On/Off signal, depending on power supply
Output current:	max. 500 mA
Housing	
Dimensions (L x W x D):	125 mm x 105 mm x 60 mm
Weight:	approx. 0.3 kg
Material:	ABS
Protection type:	IP 45
Storage temperature:	-25 °C to 60 °C
Norms	
DIN EN 60335-1	Household and similar electrical appliances- Safety- Part1
DIN EN 50270	Electromagnetic compatibility
DIN EN 50194-1:2009	Electrical devices for the detection of combustible gases in domestic housing

Unless not else specified by the application, an inspection every 2 years is recommended.