



- Natural gas sensors with infrared detection technology
- DIN EN 50194 conform
- Tamper-proof
- Event-driven speech instructions
- Valve control
- Logbook function
- Operational life > 10 years
- smartEXTENSION drive possible
- Easy to install

Description

The smartALERT™ is a state of the art gas warning device from the latest generation. The development was done with special regard to the requirements of the DVGW-worksheet G 110. For this reason the compliance with the EN 50194 was tested by an independent expert.

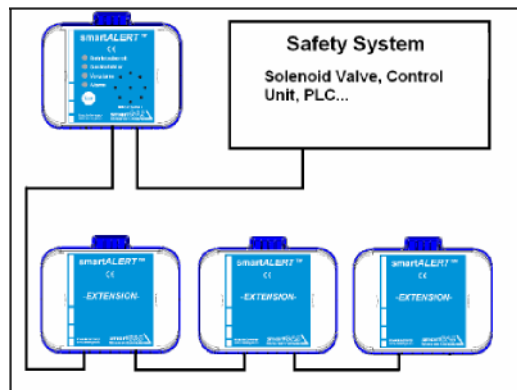
With the high sensitive and reliable IR-sensoric the smartALERT™ is able to detect very small gas concentrations long bevor a dangerous situation can occur. This helps to avoid false alarm.

The classification of the gas alarms is split into a pre alarm and a main alarm and can be extended by various other alarms

The different alarm conditions are described by an event driven acoustic speech output. So the user gets all important informations in case of emergency.

To be able to monitor large rooms or long pipeline length a special kind of modbus-open-protocol is implemented as a communication protocol into the smartALERT™.

The BUS capability and the easy installation allow the trouble-free networking of up to 5 separated measurement points and provides the optimal protection against a possible hazards of natural gas



Picture 1. Networking smartALERT™ and EXTENSION™

Technical data

General Features

Gas detected	natural gas (methane), other on request
Detection principle	infrared absorption
Detection range	0 – 100 % LEL
Operating temperature	-15°C to 45°C
Pressure	800 hPa – 1100 hPa
Humidity	0% - 95% rel. humidity
Measurement Error	< 2%
Response time t90	< 30 seconds
Warm-up time	< 2 minutes
Lifetime	10 years
Service intervall	depending on operating conditions up to 4 years

Electrical Data

Supply voltage	12 - 24 volt DC
Power consumption	approx. 3 VA
Output voltage	12/24 volts DC
Output current	max. 500 mA
Communication	similar to modbus-open-protocol

Mechanical Data

Dimensions (w x h x d)	125 mm x 105 mm x 60 mm
Weight	approx. 0.3 kg
Material	ABS
Ingress protection	IP 45
Storage temp	-25 to 60°C

CE-Conformity

DIN EN 50270 "Electromagnetic Compatibility";
DIN EN 60335-1 "Household and similar electrical appliances – safety"

Measurement Function (Type methane)

DIN EN 50194 "Electrical apparatus for the detection of combustible gases in domestic premises"

All rights to make changes reserved.

