MULTI-CHANNEL GAS SENSOR SYSTEM

FlexADOS 914

SIL1

Suitability

The multi-channel gas detector system FlexADOS 914 continuously monitors the ambient air and provides an early warning of harmful, explosive and non-flammable gases and vapours. Together with the GTR 210 gas transmitter family, FlexADOS 914 fulfils EN 50271, achieves safety integrity level SIL1 and can be used for primary explosion protection.

Areas of application

- Explosion protection chemicals industry
- Paint and varnish manufacturing
- Liquid gas storage facilities
- Laboratories
- Refrigerated warehouses (ammonia monitoring)
- Refineries
- Measurement of oxygen concentration
- Gas-powered boilers
- Wastewater treatment plants
- and much more

Features

- Up to 12 analogue 4...20mA sensors are evaluated (GTR 210, LCTR 903, TOX 592)
- Graphic LCD display to show actual values, mean values and faults in plain text
- Indicator for operation, malfunction, maintenance, power failure
- Simple menu-guided setting of the device parameters using 6-part keyboard
- Three alarm thresholds per sensor, independently adjustable from 10 to 90% of the measuring range
- Averaging from 1 to 60 minutes possible
- Maximum of 14 potential-free changeover contacts to control further warning and control facilities
- Potential-free changeover contact for malfunction, maintenance and power failure
- As an option: Building control system connection for data transfer (measuring value and state)
- Plastic wall housing (IP 54)
- High operating reliability
- Low power consumption
- Simple assembly
- Uninterrupted electricity supply possible

Universal fieldbus

Optional data interfaces for building management systems (BMS) compatible with:

- LONWorks
- Modbus RTU
- Profibus
- ModBus TCP
- ProfiNet

Measuring ranges

Gas types can be adjusted as desired, Examples:	CH_4 methane H_2 hydrogen H_2S hydrogen sulphide CO_2 carbon dioxide
physical unit adjustable as desired, Examples:	%LEL ppm VOL%

Accessories

Horn, warning light, blinker lamp, recorder, emergency power unit UPS 2000-24V, gas cooler, gas inlet, and much more. Additional accessories are offered on request depending on the measuring task.

Technical data

Sensors analogue 4...20mA	12 sensors in a 2- or 3-wire system
Power supply	100-240V 50/60Hz, optional 24VDC
max. power consumption	60VA
Operating conditions	-25°C...+45°C 80kPa...120kPa 0%...95% rel. humidity non-condensing
Protection class due to housing (DIN EN 60529)	IP 54
Dimensions (WxHxD)	300 x 230 x 120 mm
Displays	Graphic LCD display 128 x 64 px Background red/green/yellow LED power, malfunction, power failure, maintenance
digital inputs	3
analogue outputs	2 x power output 4...20mA max. burden 400 ohm
digital outputs	17 relays per 1 relay Malfunction, power failure, maintenance 14 alarm relays Potential-free change-over contacts Switching capacity max 250V / 8A
other interfaces	USB Universal fieldbus (option)
Weight	2.7 kg
Service life Buffer battery clock	> 10 years
Service life Parameter memory	> 20 years
Storage conditions	max. 1 year -25°C...+45°C 80kPa...120kPa 0%...95% rel. humidity non-condensing
Conformity EC type-examination according to	EN60079-29-1 EN50104 EN45544-1 EN50271 EN50270
EX marking	⟨Ex⟩ II (2) G