



MULTI-CHANNEL GAS SENSOR SYSTEM

FlexADOS 914 MED



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Instrumentation and Control

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Suitability

The multi-channel gas detector system FlexADOS914 MED continuously monitors the ambient air and provides an early warning of harmful, explosive and non-flammable gases and vapours. The evaluation unit has been equipped with a robust cabinet to resist increased mechanical strains as they may occur in the maritime sector. Moreover, the evaluation unit disposes of the class certificate DNV-GL and fulfills the requirements of the Marine Equipment Directive 2014/90/EU (marking: MED wheel mark). Together with the GTR 210 gas transmitter family, FlexADOS 914 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
- Explosion protection on ships
- Ships with LNG propulsion
- LNG bunker vessels

Features

- Up to 12 analogue 4...20mA sensors are evaluated (GTR 210, LCTR 903, TOX 592)
- Graphic LCD display to show content 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)
- Aluminium wall housing (IP 66 / IP 67)
- High operating reliability
- Low power consumption
- Simple assembly
- Uninterrupted electricity supply possible

Information exchange

Optional data interface:

- LONWorks
- Modbus RTU
- Profibus
- BacNet
- ModBus TCP
- TCP/IP (Webserver)

Measuring ranges

Gas types can be adjusted as desired, Examples:	CO carbon monoxide NO ₂ nitrogen dioxide NO nitrogen monoxide CH ₄ methane
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	-13°F...+113°F 80kPa...120kPa 0%...95% rel. humidity non-condensing
Protection class due to housing (DIN EN 60529)	IP 66 / IP 67
Dimensions (WxHxD)	15,7 x 11,8 x 5,1 inch
Displays	Graphic LCD display 128x64 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	15,4 lbs
Service life Buffer battery clock Service life Parameter memory	> 10 years > 20 years
Storage conditions	max. 1 year -13°F...+113°F 80kPa...120kPa 0%...95% rel. humidity non-condensing
Conformity EC type-examination according to	EN60079-29-1:2016 EN50104:2011 EN45544-1,-2,-3:2000 EN50271:2011 EN50270:2015 DNV-GL MED 2014/90/EU IEC 60092-504:2016
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