**MEASURING, CONTROL AND WARNING UNIT
FOR SENSORS**

FlexADOS 914 CP

VDI 2053 SIL1

ADOS GmbH

Instrumentation and Control

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Suitability

The FlexADOS 914 CP is a measuring, control and warning unit for gas sensors. It continuously monitors the ambient air and provides an early warning of harmful, explosive and non-flammable gases and vapours. Together with the 592 TOX gas transmitters, FlexADOS 914 CP fulfils VDI guideline 2053 from December 2014 and also EN 50271.

Areas of application

- Garages and tunnels
- 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
- Five alarm thresholds per sensor, independently adjustable from 10 to 90% of the measuring range
- Averaging from 1 to 60 minutes possible, 2 levels (fan areas) can be displayed
- 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:	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	-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	2 alarm levels with max 17 relays per 1 relay Malfunction, power failure, maintenance 14 alarm relays Potential-free change-over contacts Switching capacity max 250V/8A Expansion possibility up to a total of 6 alarm levels
other interfaces	USB Universal fieldbus (option)
Weight	2.7 kg
Service life Buffer battery clock Service life parameter memory	> 10 years > 20 years
Storage conditions	max. 1 year -25°C...+45°C 80kPa...120kPa 0%...95% rel. humidity non-condensing
certified according to	VDI2053 EN50545 EN50271 EN50270