

GAS ANALYSERS



Application:

- Welding & Cutting
- Food Industry
- Beverage Industry
- Laser Technology
- Thermal Processing
- Hydrogen Applications
- Helium Leak Test

AMBIENT AIR MONITORING RLA compact / multichannel

Made in Germany

Product of





RLA compact
gas measuring computer for
up to 4 transmitters



Transmitter
(example)



RLA multichannel
gas measuring computer
for up to 16 transmitters

Ambient Air Monitoring System for the detection of combustible and toxic gases or oxygen (O₂).

Benefits

- connection of up to 4 transmitters (RLA compact) and respectively 16 transmitters (RLA multichannel) for different gases
- easy programming of the measurement range, the measurement designation, the type of transmitter and the type of gas can be set individually as well as three alarm thresholds
- 6 internal relays, 4 of them freely programmable (RLA compact), respectively 8 internal relays and 6 of them freely programmable (RLA multichannel)
 - allocation of one or more measurement points to relay
 - single alarm per measurement point
 - single alarm per alarm threshold
 - configuration of collective alarm and group alarm
 - error report and voting function
- large illuminated graphic display with traffic light function for continuous visual monitoring of the gas concentration
- with integrated alarm transmitter (signal light and -audible alarm)
- easy wall mounting
- RLA multichannel additionally:
 - max. 20 cable glands
 - connections for alarm easily accessible on fore front
- Transmitters:
 - with status and function display
 - long lifetime of sensors
 - setting without opening of housing via keystroke
 - on site alarm by integrated horn (optionally)

Options:

- 2GB micro SD memory card for saving measurement values, averages, alarm events and errors in individual intervals
- flow-through adapter for sensor check and calibration

Components:

1. Control and Display Unit
2. Transmitter/s
3. Transmitter cable for connecting of Transmitter and Control Unit

Caution!

The unit must be calibrated regularly also at initial startup!

Gas measuring computer:	RLA compact	RLA multichannel
Gases	combustible and toxic gases, oxygen (O ₂)	
Input signal	0.2 to 1 mA and 4 to 20 mA	
Output signal	4 to 20 mA	
Alarm contacts	- 6 relay each having one NO contact there of 4 volt-free relay contacts for activation of external devices at alarm limits 3, 2, 1 and system fault Rated: 230 V / 4 A Please indicate with order whether the relay contacts shall be normally open (NO) or normally closed (NC)	- 8 relay each having one changeover contact there of 6 volt-free relay contacts for activation of external devices at alarm limits 3, 2, 1 and system fault
Interfaces	RS485 mini-USB socket	
Function keys	acknowledgement of alarm; built-in test and check of measurement range and calibration; relay function test	
Display	- graphic screen for display of gas concentration and parameters - additional digital menu item display - 13 LEDs	- 15 LEDs
Safety	indicating of operating status, system fault and alarms 2, 1 and 3 continuous self check of processor function, excessive / low voltage, cable fault, transmitter function	
Housing	plastics, IP65	
Weight	890 g	2.0 kg
Dimensions (HxWxD)	180 x 209 x 64 mm (without connections)	290 x 270 x 98 mm (without connections)
Voltage	230 V AC or 24 V DC	



Transmitters:

Measured gas

oxygen (O₂ 0-25 (Vol.), electrochemical sensor;
carbon dioxide (CO₂ 0-5 (Vol.), Infrared-sensor;
hydrogen (H₂ 0-100 (LEL), catalytic combustion;
methane (CH₄ 0-100 (LEL), catalytic combustion

Sample gas supply

Special features

diffusion
- service access to test switch
- test connectors for measurement of measuring signal
- potentiometers for zero and span adjustment

Housing

Weight

Dimensions (HxWxD)

Voltage

plastic, IP54, (CO₂ transmitter aluminium, IP65) splash proof
up to 325 g, depending on version (CO₂ transmitter: 980 g)
98 x 120 x 50 mm, CO₂ transmitter: 125 x 80 x 60 mm (without connections)
230 V AC or 24 V DC

Approvals

Company certified according to ISO 9001
CE-marked according to:
- EMC 2004/108/EC
- Low Voltage Directive 2006/95/EC





Gas control equipment

- Gas mixing systems
- Gas metering systems
- Gas analysers
- Leak detection systems
- Gas pressure vessels
- Engineering of customised systems

Gas safety equipment

- Flashback arrestors
- Non-return valves
- Quick COUPLINGS
- Safety valves
- Stainless steel devices
- Gas filters
- Pressure regulators
- Lance holders
- Ball valves
- Automatic hose reels
- Test equipment
- Accessories
- Customised safety devices

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