AMBIENT AIR MONITORING RLA
compact / multichannel

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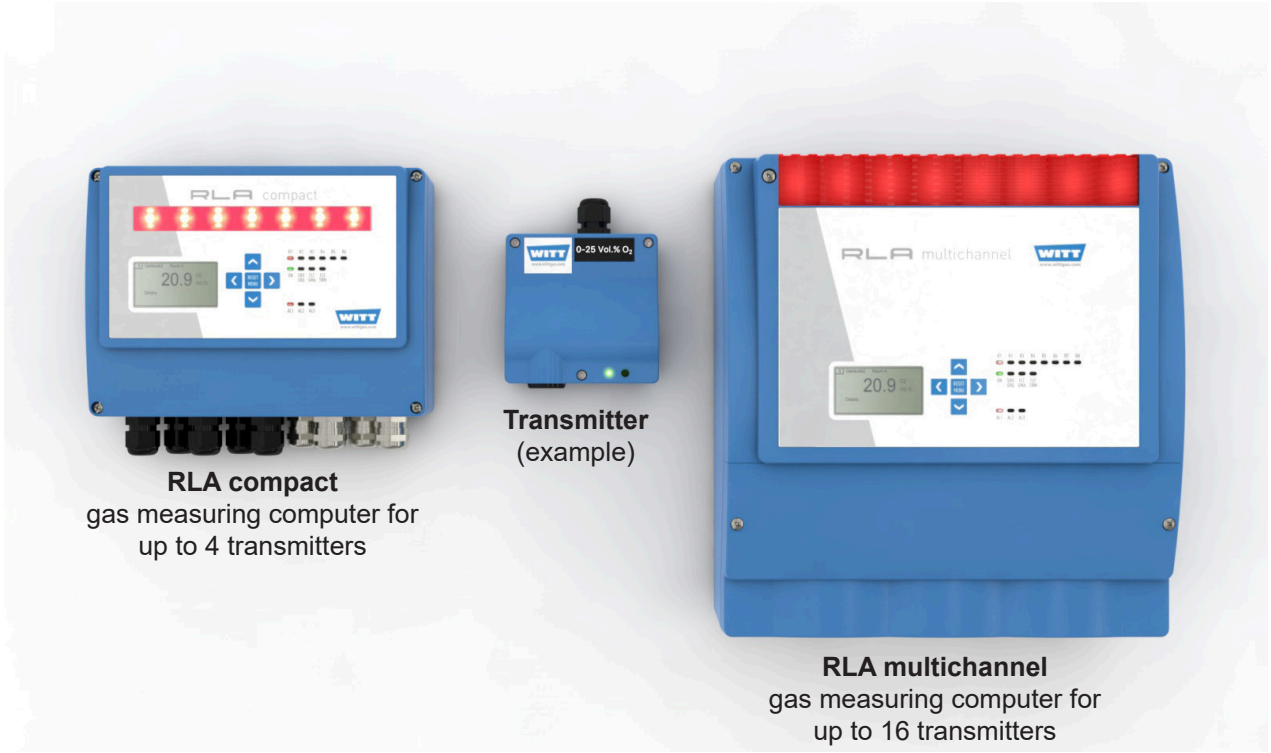

RLA compact
gas measuring computer for
up to 4 transmitters

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 (O_2).

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!

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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 1, 2, 3 and system fault	- 8 relay each having one changeover contact there of 6 volt-free relay contacts for activation of external devices at alarm limits 1, 2, 3 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)	
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
	indicating of operating status, system fault and alarms 1, 2 and 3	
Safety	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 (O_2) 0 - 25% (Vol.), electrochemical sensor; carbon dioxide (CO_2) 0 - 5% (Vol.), Infrared-sensor; hydrogen (H_2) 0 - 100% (LEL), catalytic combustion; methane (CH_4) 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	plastic, IP54, (CO_2 transmitter aluminium, IP65) splash proof
Weight	up to 325 g, depending on version (CO_2 transmitter: 980 g)
Dimensions (HxWxD)	98 x 120 x 50 mm, CO_2 transmitter: 125 x 80 x 60 mm (without connections)
Voltage	230 V AC or 24 V DC

Approvals	Company certified according to ISO 9001 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU

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