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 auditory alarm)
- easy wall mounting
- RLA multichannel additionally:
  - max. 20 cable glands
  - connections for alarm easily accessible on foremost
- 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!
## AMBIENT AIR MONITORING RLA
### compact / multichannel

<table>
<thead>
<tr>
<th>Gas measuring computer:</th>
<th>RLA compact</th>
<th>RLA multichannel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gases</td>
<td>combustible and toxic gases, oxygen (O₂)</td>
<td></td>
</tr>
<tr>
<td>Input signal</td>
<td>0.2 to 1 mA and 4 to 20 mA</td>
<td></td>
</tr>
<tr>
<td>Output signal</td>
<td>4 to 20 mA</td>
<td></td>
</tr>
<tr>
<td>Alarm contacts</td>
<td>- 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</td>
<td>- 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</td>
</tr>
<tr>
<td></td>
<td>Rated: 230 V / 4 A Please indicate with order whether the relay contacts shall be normally open (NO) or normally closed (NC)</td>
<td></td>
</tr>
<tr>
<td>Interfaces</td>
<td>RS485 mini-USB socket</td>
<td></td>
</tr>
<tr>
<td>Function keys</td>
<td>acknowledgement of alarm; built-in test and check of measurement range and calibration; relay function test</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>- graphic screen for display of gas concentration and parameters - additional digital menu item display - 13 LEDs indicating of operating status, system fault and alarms 1, 2 and 3</td>
<td>- 15 LEDs</td>
</tr>
<tr>
<td>Safety</td>
<td>continuous self check of processor function, excessive / low voltage, cable fault, transmitter function</td>
<td></td>
</tr>
<tr>
<td>Housing</td>
<td>plastics, IP65</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>890 g</td>
<td>2.0 kg</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>180 x 209 x 64 mm (without connections)</td>
<td>290 x 270 x 98 mm (without connections)</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 V AC or 24 V DC</td>
<td></td>
</tr>
</tbody>
</table>

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

### Housing
- plastic, IP54, (CO₂ transmitter aluminium, IP65) splash proof

### Weight
- up to 325 g, depending on version (CO₂ transmitter: 980 g)

### Dimensions (HxWxD)
- 98 x 120 x 50 mm, CO₂ 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