### Technical specifications: GMA200-RT / GMA200-RTD

#### Display & control elements

<table>
<thead>
<tr>
<th>GMA200-RT</th>
<th>GMA200-RTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status LEDs:</td>
<td>19 status LEDs for alarm, operating and relay status</td>
</tr>
<tr>
<td>Display:</td>
<td>-</td>
</tr>
<tr>
<td>Buttons:</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Environmental conditions

<table>
<thead>
<tr>
<th>Mounting</th>
<th>for storage</th>
<th>for operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>in the switch cabinet or in the wall housing, indoors on a mounting rail TS35 according to DIN EN 60715 up to an altitude of 2000 m above sea level</td>
<td>-25…+60°C</td>
<td>-20…+50°C</td>
</tr>
<tr>
<td>0...99% r.h. (recommended: 0...+30°C)</td>
<td>0...99% r.h.</td>
<td></td>
</tr>
</tbody>
</table>

#### Power supply

- external supply with: stabilized SELV or PELV power supply
- Operating voltage Ue: 24V DC (20-30V DC permissible)
- Power consumption: max. 6W
- Fuses: F1=5 100mA

#### RS485 output

- GMA bus: RS485; Half-Duplex; galvanically isolated; max. 230400 Baud (for GMA200 relay module, control centre, PC, SPS or Gateway)

#### Response time

- Readiness delay: <50ms (see also update time of the gas measurement controller) <10s (extended by the respective gas measurement controller, if applicable)

#### Relay outputs

- Contacts: 16 relays each with a changeover contact
- Contact load capacity: 3A/250V AC or 3A/30V DC
- Minimum switching current: 10mA
- Minimum switching voltage: 5V
- Insulation clearances: Basic insulation between the relays: 1&2, 2&3, 4&5, 5&6, 7&8, 8&9, 10&11, 11&12, 13&14, 14&15 Double insulation between the relays: 3&4, 6&7, 9&10, 12&13, 15&16

#### Alarm acknowledgement inputs

- Reset: 0-3V DC (alarm acknowledgement occurs at contact with GND; U_{max}=30V DC)

#### USB connection

- Mini USB socket for device configuration with PC

#### Housing

- Attachment: on mounting rail TS35 according to EN 60715
- Protection class: IP20
- Material: Kunststoff
- Dimensions: 162 x 97 x 62mm (B x H x T)
- Weight: ca. 410g

#### Cable junction

- Cable: 2-4 wires 0.5-1.5mm² LIYY, NYM (for GMA200-RT/RTD supply)
  2 wires 1x2x0.22mm² BUS-LD (for GMA bus at length>10m)
- Terminal blocks: 0.08-2.5mm² cross section

#### Approvals / Tests

- Electromagnetic compatibility: EN 50270:2015 (Interference emission: type class I, interference immunity: type class II)
- Electrical safety: EN 61010:2010 (Pollution degree 2, overvoltage category III for relay contacts)