

## DATASHEET

# E2608

Evikon

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# Combustible Gases Detector-Transmitter E2608-LEL



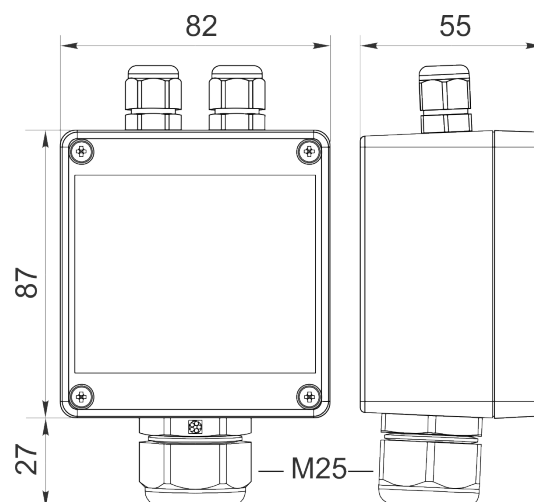
## Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Two relays for alarm / ventilation control
- Attached or remote sensor

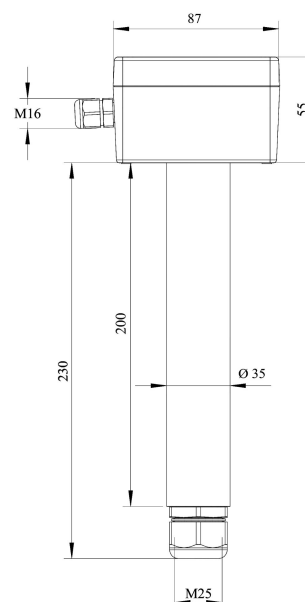
## Specifications

|                         |                                                                                                                                                                                                                                                                      |              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Detected gases          | Hydrogen, methane, acetylene, propane, butane, hexane, octane                                                                                                                                                                                                        |              |
| Default calibration     | Methane CH <sub>4</sub>                                                                                                                                                                                                                                              |              |
| Sensor type             | Metal-oxide semiconductor<br>Pellistor (catalytic bead) on demand                                                                                                                                                                                                    |              |
| Sampling method         | Diffusion                                                                                                                                                                                                                                                            |              |
| Sensor                  | MOS                                                                                                                                                                                                                                                                  | Pellistor    |
| Typical detection range | 0...100% LEL                                                                                                                                                                                                                                                         | 0...100% LEL |
| Resolution              | 0.1% LEL                                                                                                                                                                                                                                                             | 1% LEL       |
| Response time T90       | ca. 60 s                                                                                                                                                                                                                                                             | ≤10 s        |
| Sensor lifetime         | > 5 years                                                                                                                                                                                                                                                            | > 3 years    |
| Calibration interval    | 12 months                                                                                                                                                                                                                                                            | 6 months     |
| Operating temperature   | -40...+70 °C                                                                                                                                                                                                                                                         | -10...+50°C  |
| Signal update           | Every 1 second                                                                                                                                                                                                                                                       |              |
| Self-diagnostics        | Full functionality check at start-up                                                                                                                                                                                                                                 |              |
| Warm-up time            | ≤ 1 min                                                                                                                                                                                                                                                              |              |
| Power supply            | 12...36 VDC (default),<br>24 VAC or 230 VAC as options                                                                                                                                                                                                               |              |
| Power consumption       | < 2 VA                                                                                                                                                                                                                                                               |              |
| Digital interface       | RS485, Modbus RTU protocol                                                                                                                                                                                                                                           |              |
| Analog outputs          | 2 × 4-20 mA / 0-10 V, user settable                                                                                                                                                                                                                                  |              |
| Output scale width      | Recommended: 20-100% of the range;<br>> 10 × resolution in any case                                                                                                                                                                                                  |              |
| Output relays           | 2 × SPST relays (closing contact),<br>250 VAC / 30 VDC, 5 A max                                                                                                                                                                                                      |              |
| Default alarm setpoints | LOW: set 20 %LEL, release 16% LEL;<br>HIGH:set 50%LEL, release 40% LEL                                                                                                                                                                                               |              |
| Enclosure               | Grey ABS plastic, wall mount,<br>protection class IP65                                                                                                                                                                                                               |              |
| Dimensions              | H87 × W82 × D55 mm                                                                                                                                                                                                                                                   |              |
| Remote sensor probe     | Protection IP65, shielded cable<br>default cable length 3.0 m                                                                                                                                                                                                        |              |
| Operating environment   | Industrial indoor and outdoor locations                                                                                                                                                                                                                              |              |
| Operating conditions    | (operating temperature is mentioned above)<br>95% RH non-condensing; 0.9...1,1 atm<br>Explosion-safe areas<br>Normal ambient oxygen level<br>No strong mechanical shock, vibrations or EMI;<br>Avoid exposure to corrosive gases or silicone<br>containing products. |              |

## Wall mount version



## Duct mount version



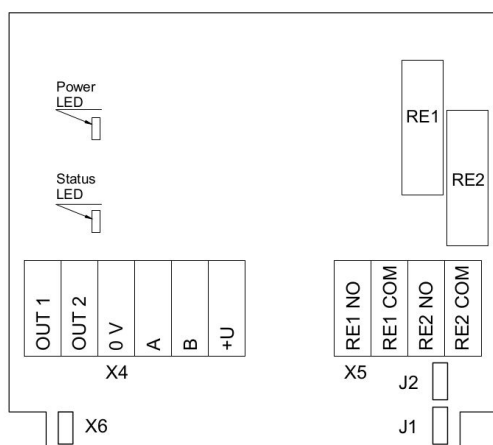
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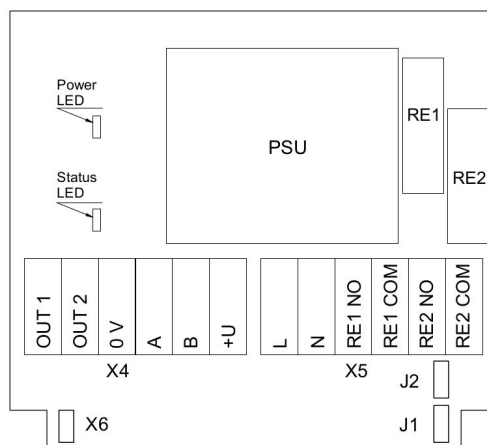
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## Connection diagrams



Version without PSU



Version with PSU

### Jumpers

J1

OUT1 type (open: 4-20 mA; closed 0-10 V)

J2

OUT2 type (open: 4-20 mA; closed 0-10 V)

X6

Reset Modbus network parameters to default

### X4 terminals

OUT1

4-20 mA / 0-10 V output

OUT2

4-20 mA / 0-10 V output

0V

0 V / 24 VAC Neutral (optional)

A

RS485 A / Data +

B

RS485 B / Data -

+U

+24 VDC / 24 VAC Phase (optional)

### X5 terminals (optional)

L

90...265 VAC Phase

N

90...265 VAC Neutral

RE1 NO

Relay 1, normally open terminal

RE1 COM

Relay 1, common terminal

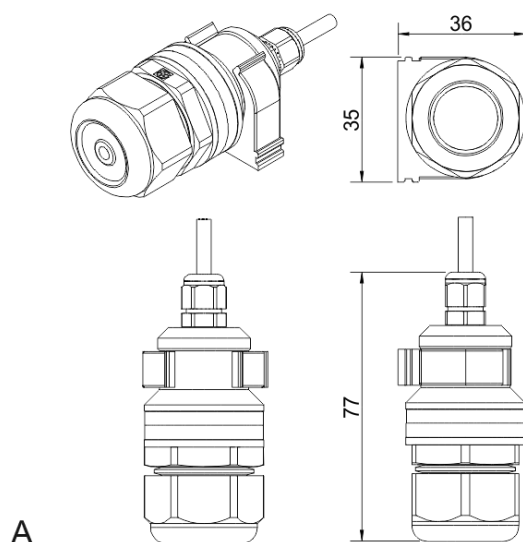
RE2 NO

Relay 2, normally open terminal

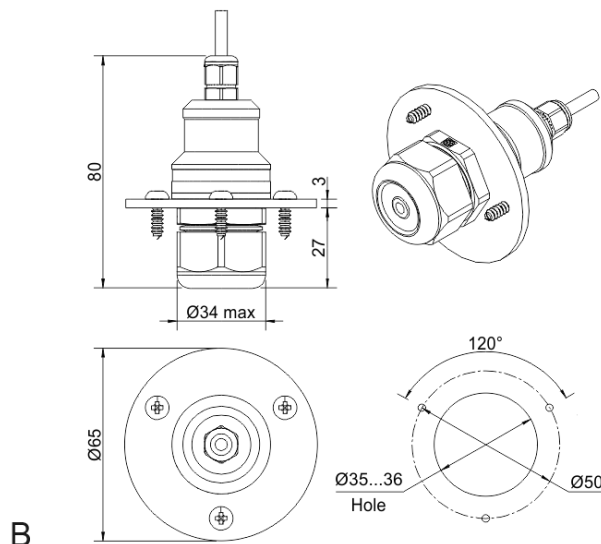
RE2 COM

Relay 2, common terminal

## Remote probe



A



B

Wall mount remote probe with fixing clamp (default version)

Remote probe with rubber flange and three self-tapping screws (on request)

