

## DATASHEET

# E2608

Evikon

Distributed by AKRIBIS



# Halocarbon Refrigerants Detector-Transmitter E2608-HFC



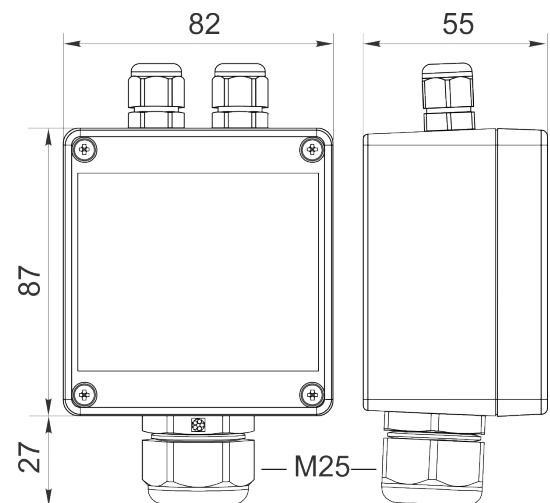
## Features

- 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

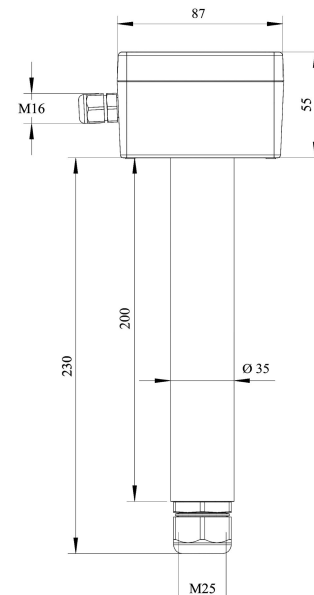
## Specifications

|                            |                                                                                                                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detected gases             | R-32, R-134a, R-404A, R-407C, R-410A, R-449A, R-454A, R-454B, R-454C, R-507, R-513A, R-1234ze, etc.                                                                                                                                    |
| Sensor type                | Metal-oxide semiconductor                                                                                                                                                                                                              |
| Sampling method            | Diffusion                                                                                                                                                                                                                              |
| Typical detection ranges   | 0...1000 ppm<br>0...2500 ppm                                                                                                                                                                                                           |
| Resolution                 | 1 ppm                                                                                                                                                                                                                                  |
| Response time T90          | <120 s                                                                                                                                                                                                                                 |
| Sensor lifetime            | > 5 years                                                                                                                                                                                                                              |
| Calibration interval       | 12 months                                                                                                                                                                                                                              |
| 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                                                                                                                                                                        |
| Alarm setpoints            | Minimum 250 ppm                                                                                                                                                                                                                        |
| 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 (MOS) | -30...+60 °C<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



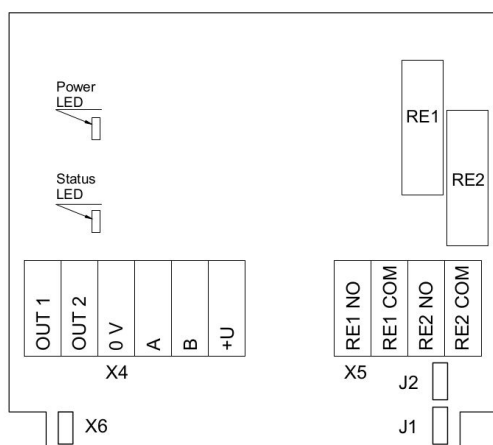
### Duct mount version



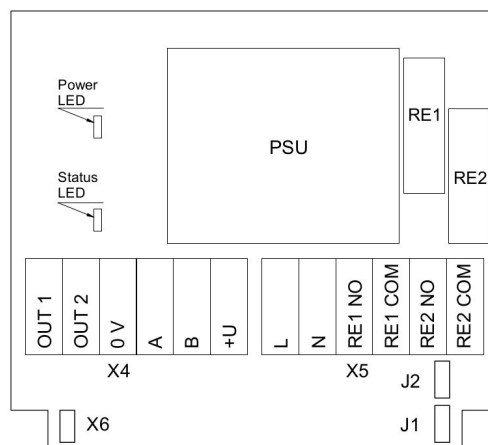
Ask for other versions or custom designed products



## 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

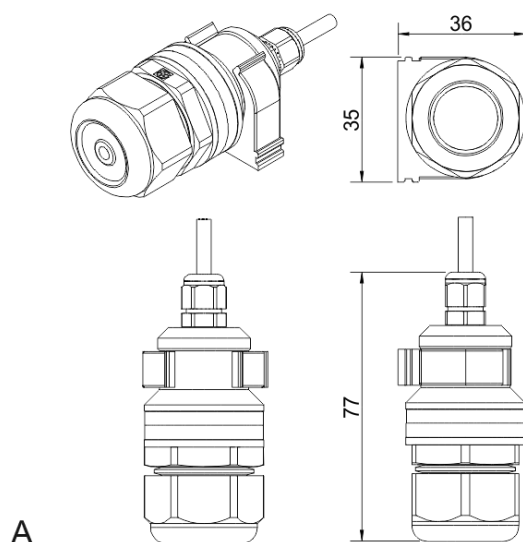
RE2 NO

Relay 2, normally open terminal

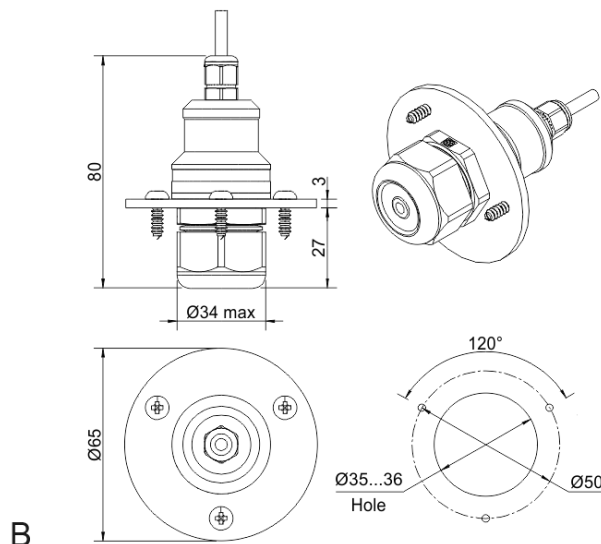
RE2 COM

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)

