

## DATASHEET

# E2618

Evikon

Distributed by AKRIBIS



# Methane Transmitter E2618-CH4



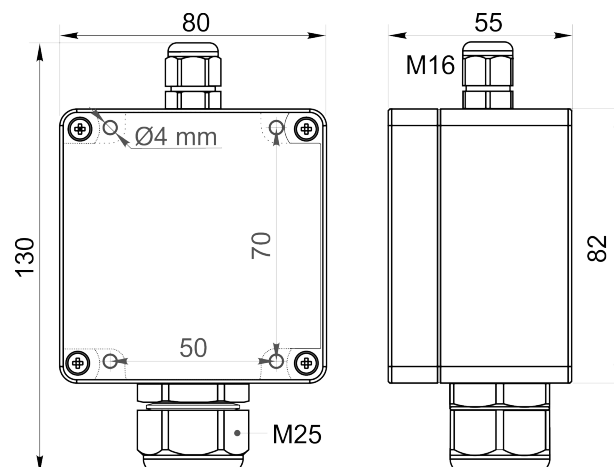
## Features

- 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
- Attached or remote sensor

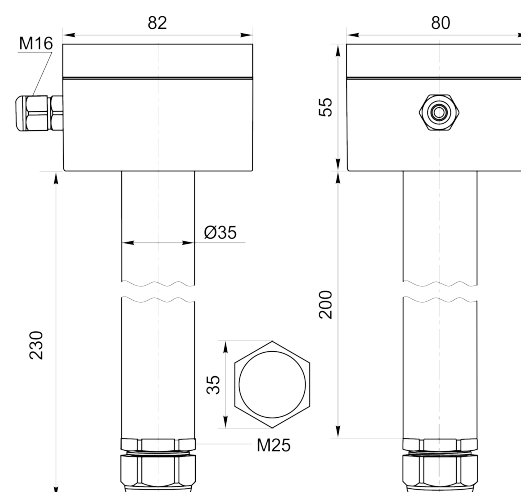
## Specifications

|                         |                                                                                                                                                                                                                            |              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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    |
| Maintenance 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 as option                                                                                                                                                                                  |              |
| 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                                                                                                                                                        |              |
| Enclosure               | Grey ABS plastic, wall mount,<br>protection class IP65                                                                                                                                                                     |              |
| Dimensions              | H82 × W80 × 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 specified above)<br>≤ 95% RH non condensing; 0.9...1,1 atm<br>Explosion-safe areas; normal ambient O <sub>2</sub> level<br>Avoid exposure to corrosive gases or silicone<br>containing products. |              |

### Wall mount version

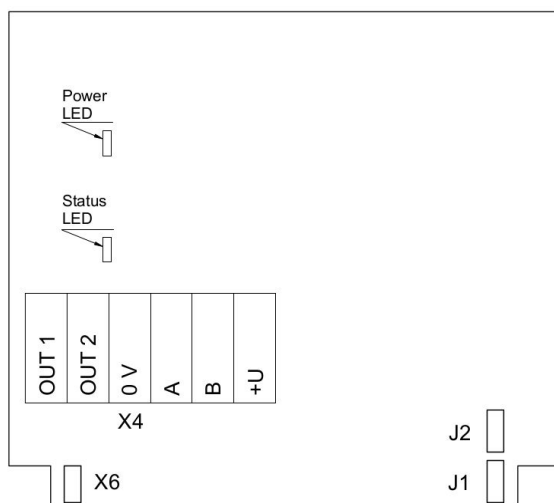


### Duct mount version



Ask for other versions or custom designed products

## Connection diagram



PCB without PSU and relays

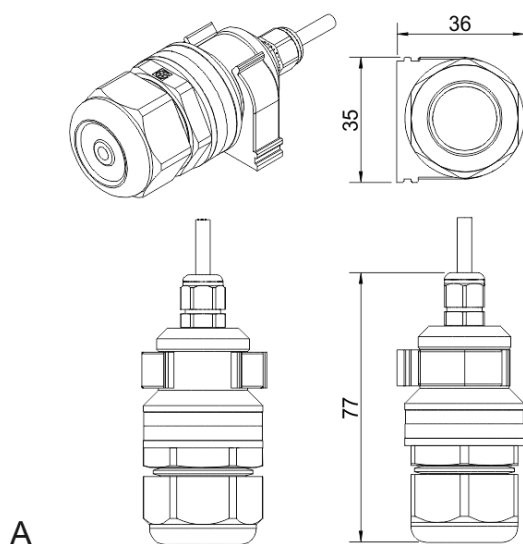
### Jumpers

- 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

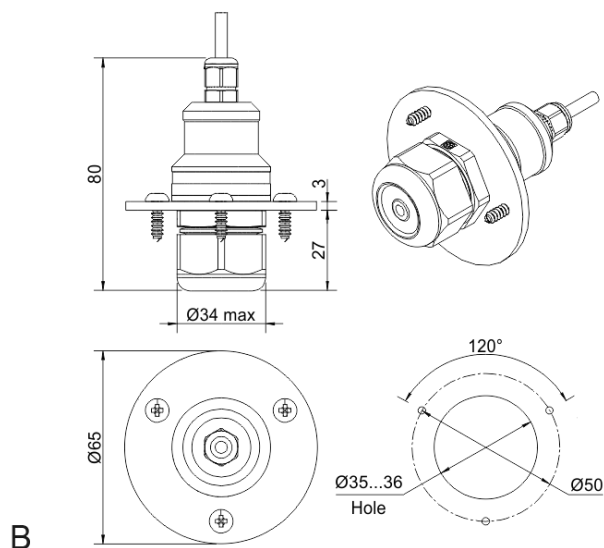
### X4 terminals

- 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)

## Remote probe



Wall mount remote probe with fixing clamp (default version)



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

