

## DATASHEET

# E2618

Evikon

Distributed by AKRIBIS



**IP65**
**4-20 mA  
0-10 V**
**RS485  
Modbus**


# Nitrogen Dioxide Transmitter E2618-NO2



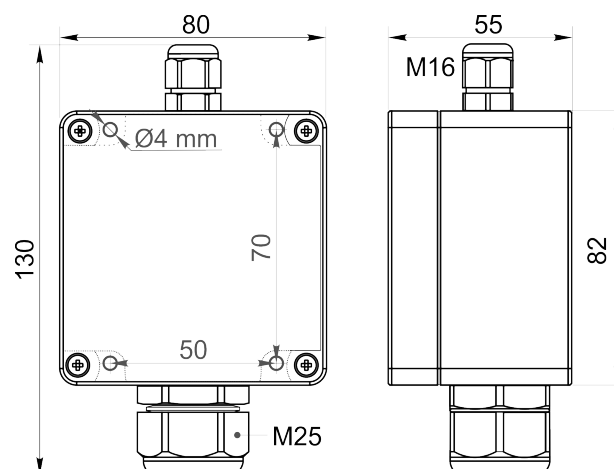
## Features

- 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

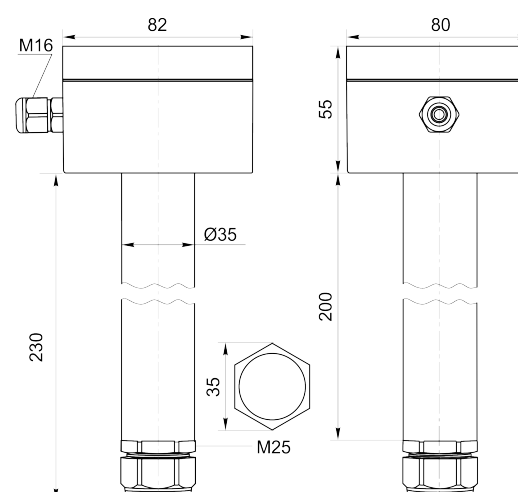
## Specifications

|                         |                                                                                                                                                                                                           |             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Calibration             | Nitrogen dioxide NO <sub>2</sub>                                                                                                                                                                          |             |
| Sensor type             | Electrochemical                                                                                                                                                                                           |             |
| Sampling method         | Diffusion                                                                                                                                                                                                 |             |
| Typical detection range | 0...200 ppm                                                                                                                                                                                               | 0...200 ppm |
| Maximum overload        | 100 ppm                                                                                                                                                                                                   | 1000 ppm    |
| Resolution              | 0.1 ppm                                                                                                                                                                                                   | 1 ppm       |
| Response time T90       | < 60 s                                                                                                                                                                                                    | <40 s       |
| Operating temperature   | -30...50 °C                                                                                                                                                                                               | -20...50 °C |
| Signal update           | Every 1 second                                                                                                                                                                                            |             |
| Sensor lifetime         | > 2 years                                                                                                                                                                                                 |             |
| Maintenance interval    | 6 months                                                                                                                                                                                                  |             |
| 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, 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<br>(operating temperature is specified above)                                                                                                                     |             |
| Operating conditions    | 15...90% RH non-condensing; 0,9...1,1 atm;<br>Explosion-safe areas<br>Non-aggressive atmosphere<br><b>NOTE!</b> We offer technical solutions for<br>extreme humidity, please ask for more<br>information. |             |

### Wall mount version



### Duct mount version



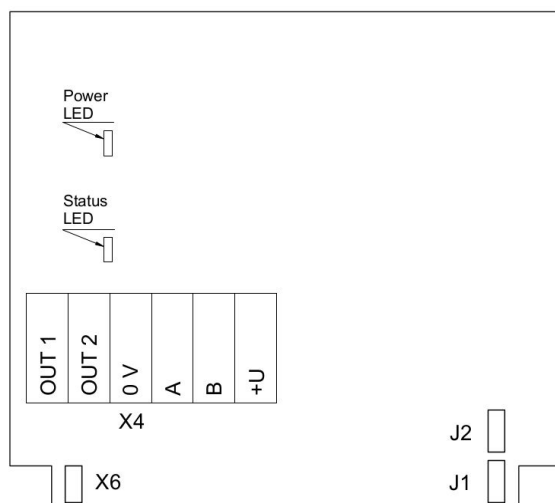
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## Connection diagram



PCB without PSU and relays

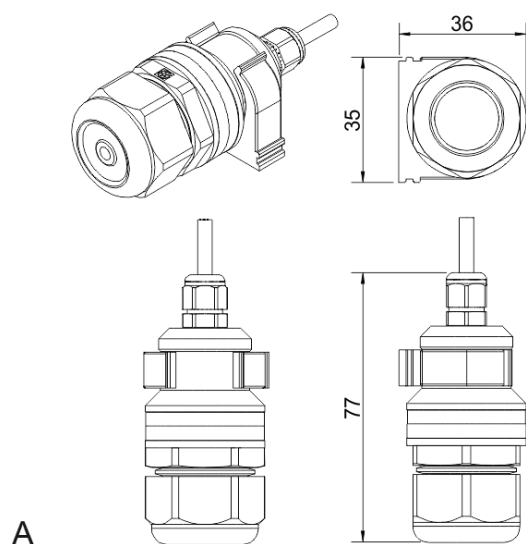
### Jumpers

- 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

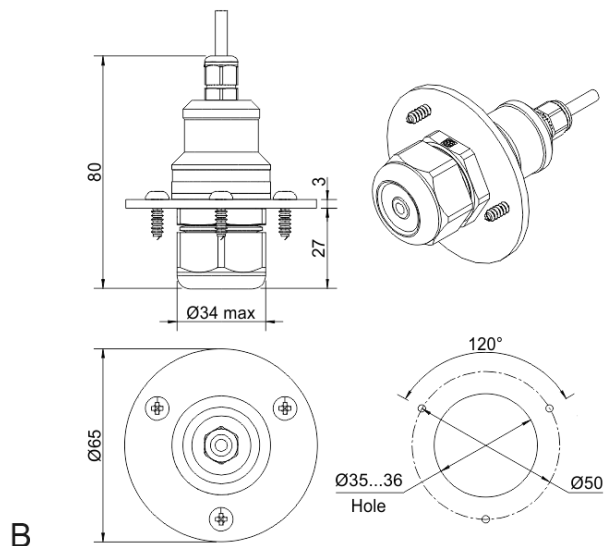
- OUT1** 4-20 mA / 0-10 V output  
**OUT2** 4-20 mA / 0-10 V output  
**0V** 0 V / 24 VAC Neutral (optional)  
**A** RS485 A / Data +  
**B** RS485 B / Data -  
**+U** +24 VDC / 24 VAC Phase (optional)

## Remote probe



A

Wall mount remote probe with fixing clamp (default version)



B

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

