

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


# Oxygen Transmitter E2618-O2



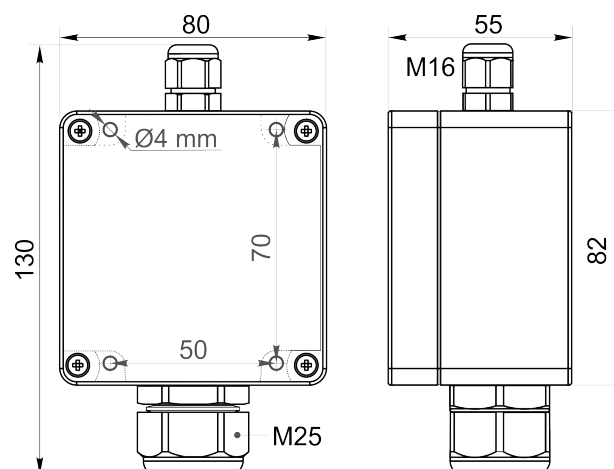
## Features

- 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

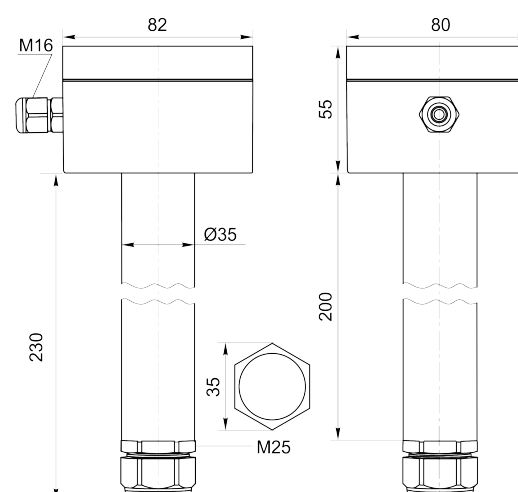
## Specifications

|                       |                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calibration           | Oxygen O <sub>2</sub>                                                                                                                                                                                                                                                                |
| Sensor type           | 2-year Electrochemical<br>3-year Electrochemical (order code O2-3Y)<br>5-year Electrochemical (order code O2-5Y)                                                                                                                                                                     |
| Sampling method       | Diffusion                                                                                                                                                                                                                                                                            |
| Detection range       | 0...25% vol.                                                                                                                                                                                                                                                                         |
| Resolution            | 0,01% vol.                                                                                                                                                                                                                                                                           |
| Response time T90     | <10 s                                                                                                                                                                                                                                                                                |
| Signal update         | Every 1 second                                                                                                                                                                                                                                                                       |
| Sensor lifetime       | > 2 years<br>> 3 years (for O2-3Y)<br>> 5 years (for O2-5Y)                                                                                                                                                                                                                          |
| Maintenance interval  | 6 months                                                                                                                                                                                                                                                                             |
| Self-diagnostics      | Full functionality check at start-up                                                                                                                                                                                                                                                 |
| Warm-up time          | ≤ 1 min<br>≤ 15 min (O2-5Y)                                                                                                                                                                                                                                                          |
| 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                                                                                                                                                                                                                                              |
| Operating conditions  | 15...90% RH;<br>5...95% RH (O2-3Y);<br>Non-condensing;<br>0,9...1,1 atm;<br>Explosion-safe areas;<br>Non-aggressive atmosphere<br>-30...+50 °C<br>-40...+60 °C (for O2-5Y)<br><b>NOTE!</b> We offer technical solutions for<br>extreme humidity, please ask for more<br>information. |

## Wall mount version



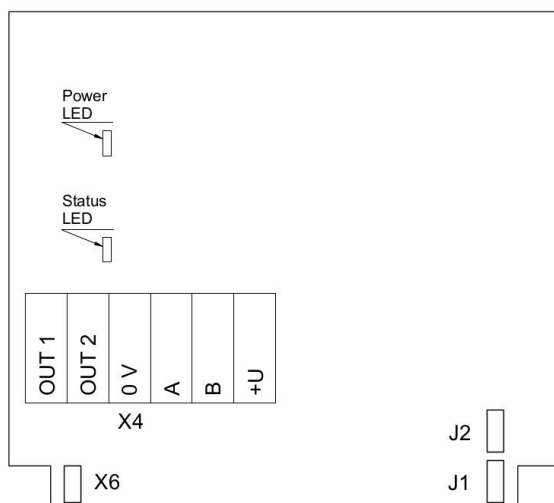
## Duct mount version



Ask for other versions or custom designed products



## Connection diagram



PCB without PSU and relays

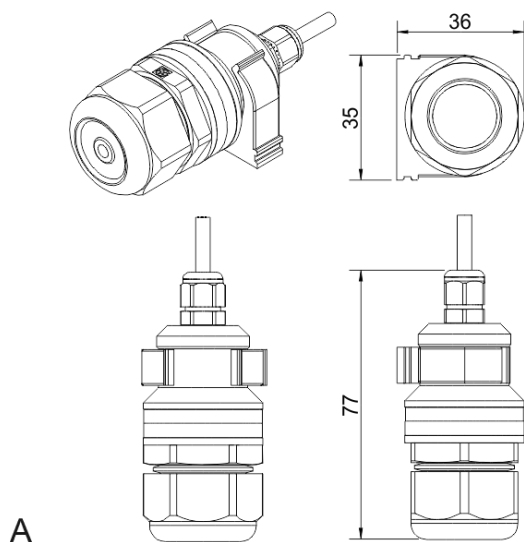
### Jumpers

- 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

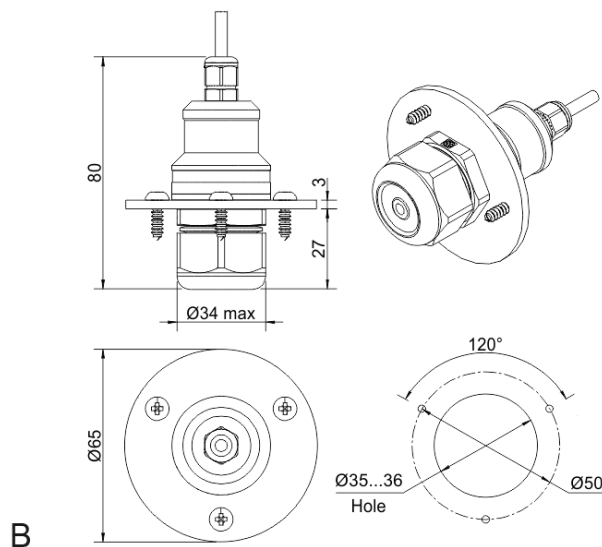
### X4 terminals

- 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)

