

DATASHEET

E2618

Evikon

Distributed by AKRIBIS



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


Nitrous Oxide Transmitter E2618-N2O



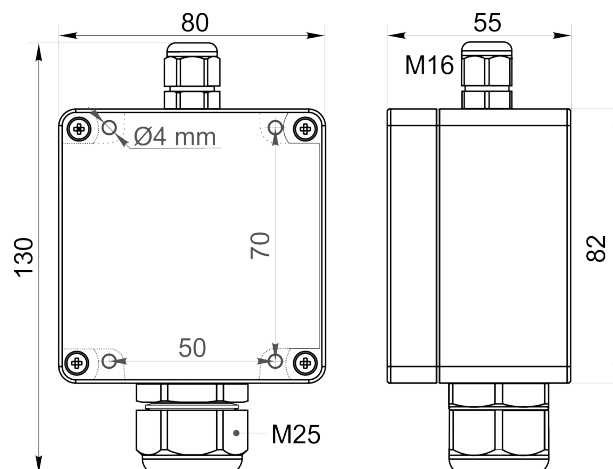
Features

- 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

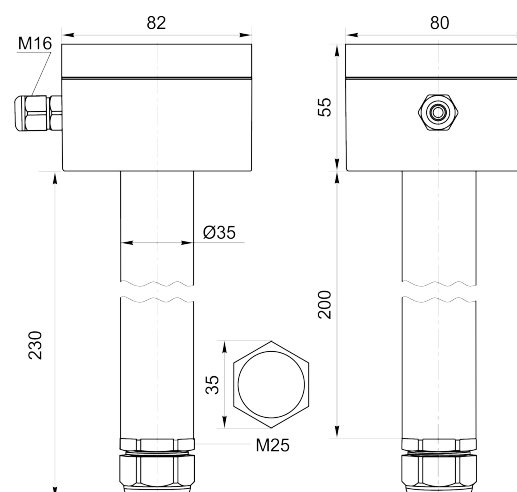
Specifications

Calibration	Nitrous oxide N ₂ O
Sensor type	Optical (NDIR)
Sampling method	Diffusion
Typical detection range	0...1000 ppm
Maximum overload	2000 ppm
Resolution	1 ppm
Response time T90	< 30s
Operating temperature	-20 °C to +50 °C
Signal update	Every 1 second
Sensor lifetime	> 5 years
Maintenance interval	12 months
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	12...36 VDC (default) 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; > 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 default cable length 3.0 m
Operating environment	Industrial indoor and outdoor locations
Operating conditions	(operating temperature is specified above) 0 to 95% RH non-condensing; 0,9...1,1 atm; Explosion-safe areas Non-aggressive atmosphere
NOTE: Cross-sensitivity to CO ₂ , ask from manufacturer details	

Wall mount version



Duct mount version



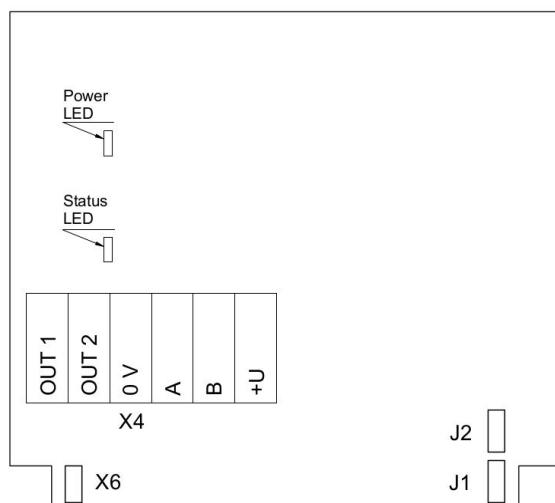
Ask for other versions or custom designed products

AKRIBIS • www.akribis.info • contact@akribis.info

Evikon MCI OU • Teaduspargi 7/9, Tartu, 50411 Estonia • Tel +372 733 6310 • info@evikon.eu • www.evikon.eu



Connection diagram



PCB without PSU and relays

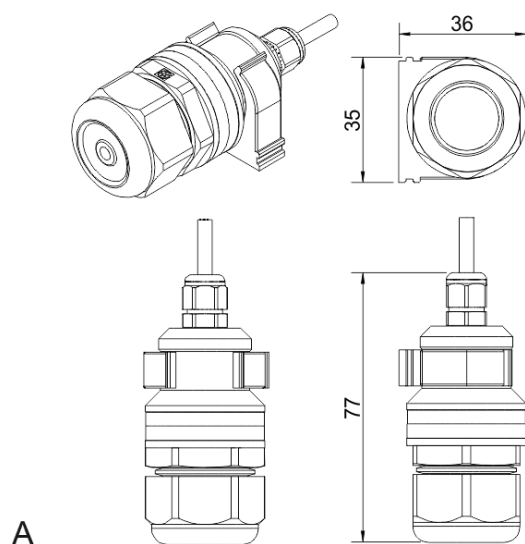
Jumpers

- 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

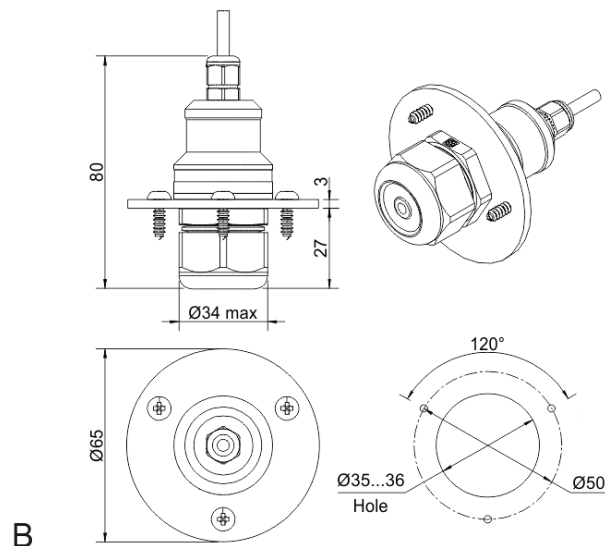
- OUT1** 4-20 mA / 0-10 V output
OUT2 4-20 mA / 0-10 V output
0V 0 V / 24 VAC Neutral (optional)
A RS485 A / Data +
B RS485 B / Data -
+U +24 VDC / 24 VAC Phase (optional)

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)

