









Nitrous Oxide Detector-Transmitter E2638-N2O



Features

- Accurate and stable measurement
- Easy to install robust enclosure
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Relay option
- · Attached or remote sensor
- LCD indicator option

Specifications

Operating temperature -20 °C to +50 °C
Signal update Every 1 second
Maintenance interval 12 months
Sensor lifetime > 5 years

Self-diagnostics Full functionality check at start-up

Warm-up time ≤ 1 min

Power supply 12...36 VDC (default)

24 VAC or 230 VAC as options

Power consumption < 2 VA

Enclosure

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

Grey ABS plastic, wall mount,

protection class IP65

Dimensions $H90 \times W145 \times D50 \text{ mm (housing only)}$

H140 with cable glands

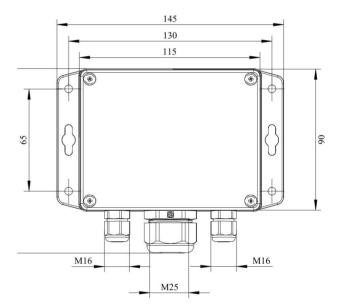
Operating environment Industrial indoor and outdoor locations
Operating conditions (operating temperature is specified above)

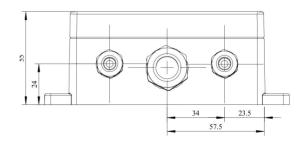
0 to 95% RH non-condensing;

0,9...1,1 atm; Explosion-safe areas Non-aggressive atmosphere

NOTE: Cross-sensitivity to CO2, ask from manufacturer details

Dimensions







Additional options

Remote sensor probe Protection IP65, shielded cable

default cable length 3.0 m

Self-test button Triggers both relays simultaneously;

push-button switch

Relay outputs

Output relays 2 × SPST relays (closing contact),

250 VAC / 30 VDC, 5 A max

Default alarm set-points Determined by user

within 5-95% of the range

Alarm signalling

Visual Red and green LEDs

Acoustic Buzzer 85 dB

LCD indicator

Operating temperature $\pm 0...+50$ °C Display dimensions 72×36 mm

Number of digits 3.5 digit 7-segment

Character height 14 mm
Other features Backlight

Protection class IP50 (both for built-in and remote LCD options)

NOTE! Only second analog output (OUT2) is available for a version with LCD.

NOTE! LCD and LEDs can not be chosen simultaneously.

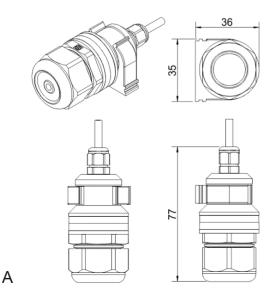
Version with built-in LCD indicator



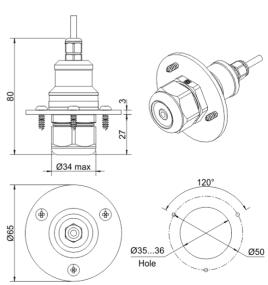
Version with remote LCD indicator



Remote probe



Wall mount remote probe with fixing clamp (default version)

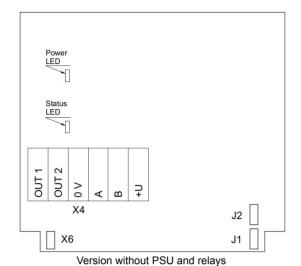


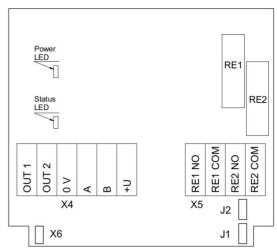
Remote probe with rubber flange and three self-tapping screws (on request)



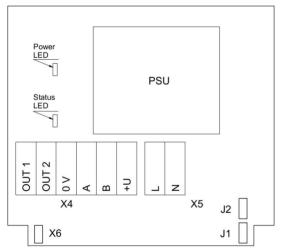
В

Connection diagrams

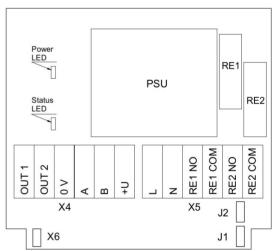




Version without PSU and with relays



Version with PSU and without relays



Version with 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

 OV
 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

