















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

Calibration Nitrous oxide N₂O
Sensor type Optical (NDIR)
Sampling method Diffusion
Typical detection range 0...1000 ppm
Maximum overload 2000 ppm
Resolution / digital unit 20 ppm
Response time T90 < 30s

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

Operating conditions

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

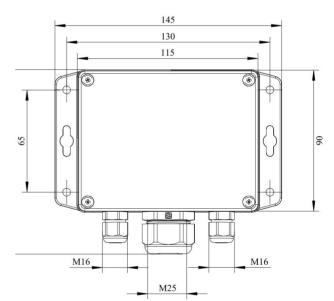
Operating environment Industrial indoor and outdoor locations

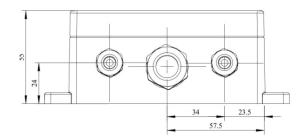
(operating temperature is specified above) 0 to 95% RH non-condensing;

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

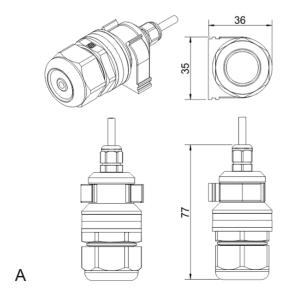
NOTE! Only second analog output (OUT2) is available for a version with LCD.

NOTE! LCD and LEDs can not be chosen simultaneously.

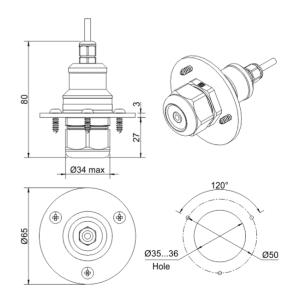
Version with LCD indicator



Remote probe



Wall mount remote probe with fixing clamp (default version)

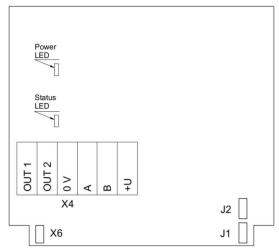


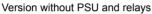
Remote probe with rubber flange and three self-tapping screws (on request)

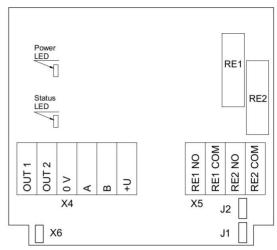


В

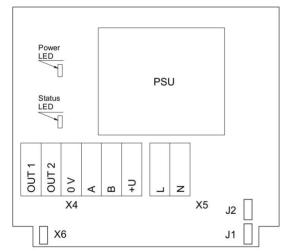
Connection diagrams



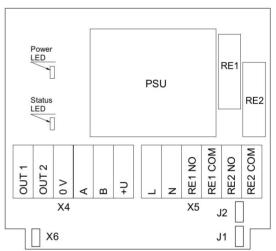




Version without PSU and with relays



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

