













#### **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
Sensor type
Sampling method
Typical detection range
Maximum overload
Pecclution

Resolution
Response time T90
Operating temperature

Signal update

Maintenance interval

Sensor lifetime

Self-diagnostics

Warm-up time

Power supply

Power consumption
Digital interface

Analog outputs
Output scale width

Enclosure

Dimensions

Operating environment Operating conditions

Nitrogen dioxide NO<sub>2</sub> Electrochemical

Diffusion

 0...20 ppm
 0...200 ppm

 100 ppm
 1000 ppm

 0.1 ppm
 1 ppm

 < 60 s</td>
 <40 s</td>

 -30...50 °C
 -20...50 °C

Every 1 second 6 months > 2 years

Full functionality check at start-up

≤ 1 min

12...36 VDC (default)

24 VAC or 230 VAC as options

< 2 VA

RS485, Modbus RTU protocol 2 × 4-20 mA / 0-10 V, user settable Recommended: 20-100% of the range;

> 10 × resolution in any case Grey ABS plastic, wall mount,

protection class IP65

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

H140 with cable glands

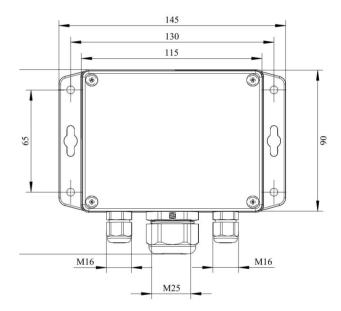
Industrial indoor and outdoor locations (operating temperature is specified above)

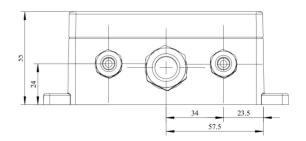
15...90% RH non-condensing; 0,9...1,1 atm;

Explosion-safe areas Non-aggressive atmosphere

**NOTE!** We offer technical solutions for extreme humidity, please ask for more information.

#### **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 For 0...20 ppm range:

RE1 (LOW): set 3; release 2.4 ppm RE2 (HIGH): set 6; release 4.8 ppm For 0...200 ppm determined by user

within 5-95% of the range

Alarm signalling

Visual Red and green LEDs

Acoustic Buzzer 85 dB

LCD indicator

Operating temperature 0...+50 °C Display dimensions  $72 \times 36$  mm Number of digits 3.5 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.

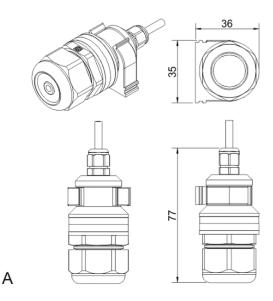
# Version with built-in LCD indicator



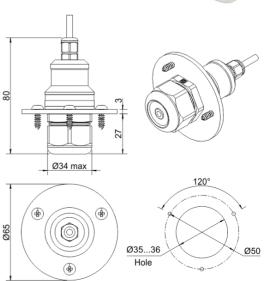
# Version with remote LCD indicator



### Remote probe



Wall mount remote probe with fixing clamp (default version)

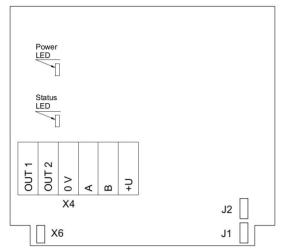


Remote probe with rubber flange and three self-tapping screws (on request)

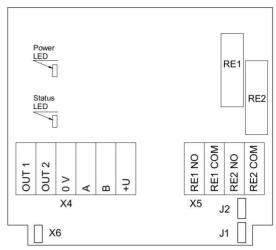


В

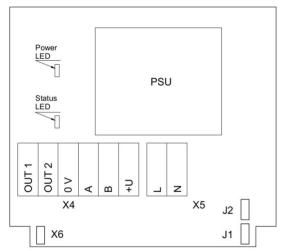
## **Connection diagrams**



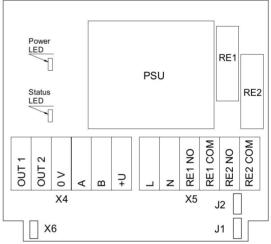




Version without PSU and with relays



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

