











Ammonia Detector-Transmitter E2638-NH3-P



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

Resolution

Response time T90
Sensor lifetime
Maintenance interval
Operating temperature
Signal update

Self-diagnostics

Warm-up time

Power supply options

Power consumption

Digital interface Analog outputs Output scale width

Enclosure

Dimensions

Operating environment Operating conditions Ammonia NH₃

Pellistor (catalytic bead)

Diffusion

0...15%vol. (0...100%LEL NH3)

0.1%vol. or 1%LEL

≤10 s > 3 years 6 months -20...+60 °C Every 1 second

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

Analog output scale can be set according to customer's requirement (e.g. 0...4%vol. NH₃)

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)

≤ 95% RH non condensing; 0.9...1,1 atm Explosion-safe areas

Normal ambient oxygen level

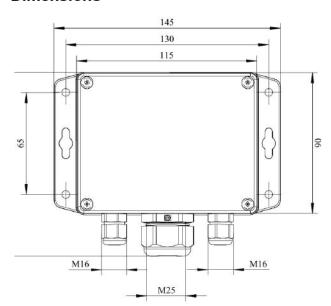
Avoid strong mechanical shock, vibrations or

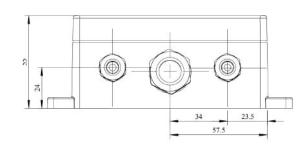
EMI:

Avoid exposure to corrosive gases or silicone

containing products.

Dimensions





Ask for other versions or custom designed products





Additional options

Protection IP65, shielded cable Remote sensor probe

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

Alarm signalling Red and green LEDs

Buzzer 85 dB Visual

Acoustic

LCD indicator 0...+50 °C Operating temperature 72 × 36 mm Display dimensions 3.5 7-segment

Number of digits 14 mm Character height Backlight

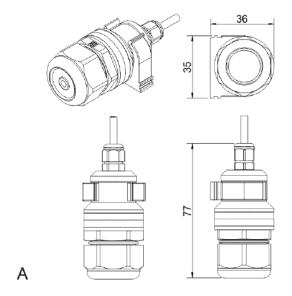
Other features

NOTE! Only one analog output is available for a version with LCD. NOTE! LCD and LEDs can not be chosen simultaneously.

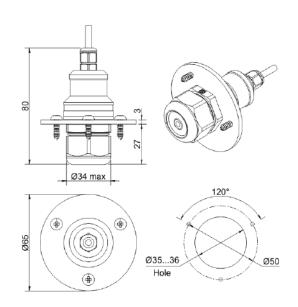
Version with LCD indicator



Remote probe



Wall mount remote probe with fixing clamp (default version)

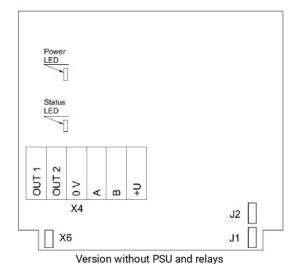


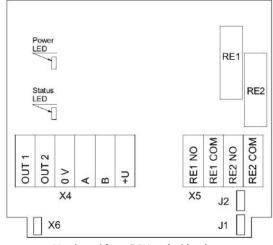
Remote probe with rubber flange and three self-tapping screws (on request)



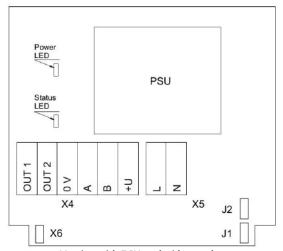
В

Connection diagrams

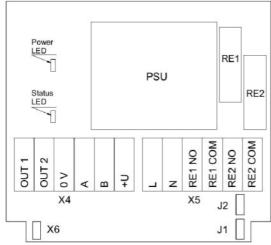




Version without PSU and with relays



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 0٧ 0 V / 24 VAC Neutral (optional)

Α RS485 A / Data + В RS485 B / Data -

+U +24 VDC / 24 VAC Phase (optional)

X5 terminals (optional)

90...265 VAC Phase L 90...265 VAC Neutral Ν

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





