

# Ammonia Detector-Transmitter E2611-NH3



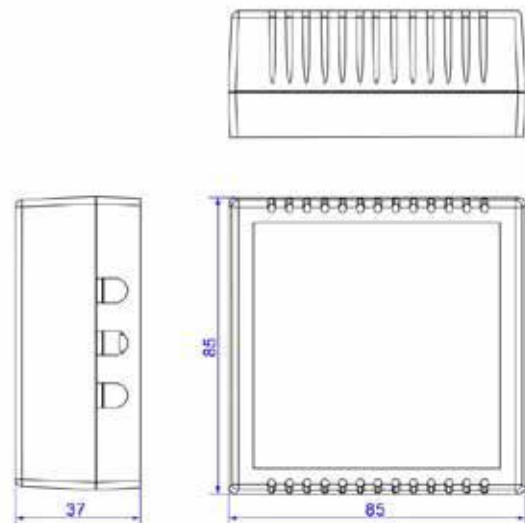
## Features

- Accurate and stable measurement
- Compact housing providing optimal airflow
- Two analog outputs settable to 4-20 mA or 0-10 V
- Two relays for alarm / ventilation control
- Acoustic alarm
- RS485 Modbus RTU digital interface

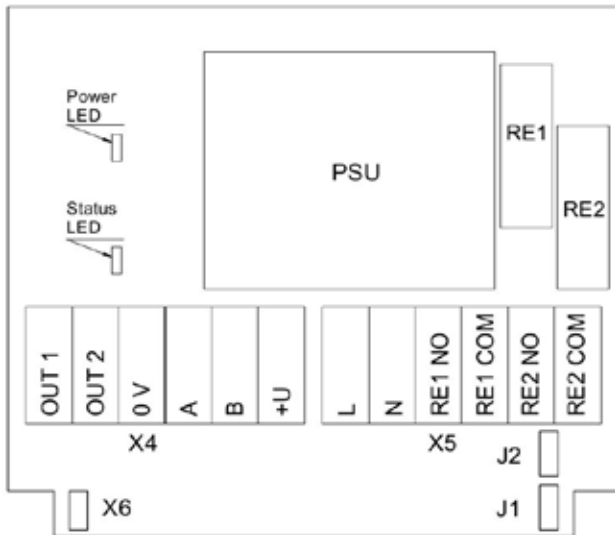
## Specifications

Calibration	Ammonia NH <sub>3</sub>
Sensor type	Metal oxide semiconductor
Sampling method	Diffusion
Typical detection range	0...1000 ppm
Resolution/digital unit	1 ppm
Response time	> 60 s
Accuracy	± 5 ppm
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 or 230 VAC as options
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	RE1 (LOW): set 25; release 20 ppm RE2 (HIGH): set 35; release 28 ppm
Alarms	Buzzer 85 dB
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Enclosure	ABS plastic with ventilation slots, wall mount, protection class IP20
Dimensions	H85 × W85 × D37 mm
Operating conditions	-40...+50 °C; 15...95% RH non-condensing; 0,9...1,1 atm; Explosion-safe areas Normal ambient oxygen level Avoid exposure to corrosive gases or volatile silicone containing products.

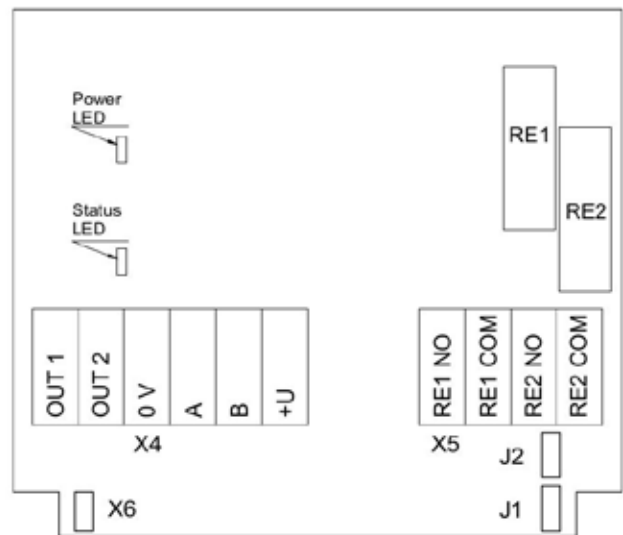
## Dimensions



## Connection diagrams



Version with PSU



Version without PSU

### 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)

### 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