

DATASHEET

E2648

Evikon

Distributed by AKRIBIS





Ammonia Detector-Transmitter E2648-NH3-E



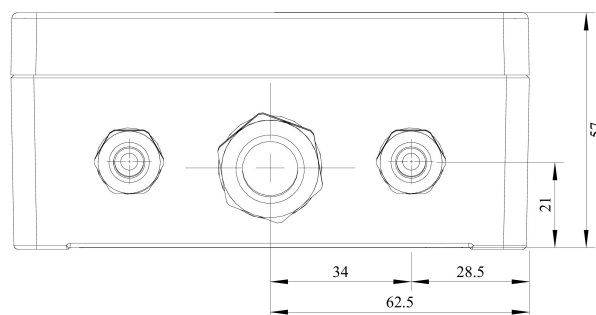
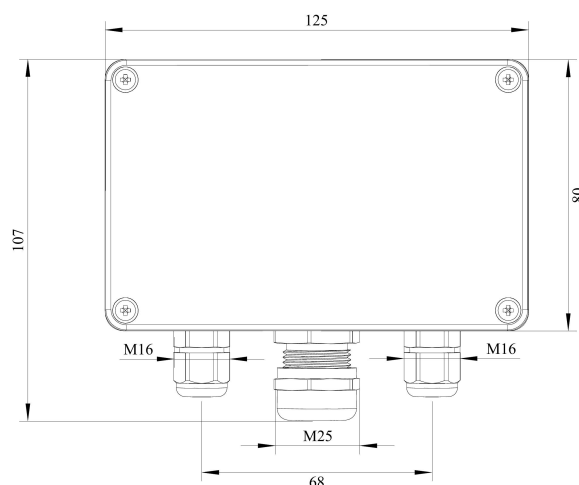
Features

- Accurate and stable measurement
- Industrial IP66 wall mount housing
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Two relays for alarm / ventilation control (option)
- Attached or remote sensor

Specifications

Calibration	Ammonia NH ₃			
Sensor type	Electrochemical			
Sampling method	Diffusion			
Detection ranges, ppm	0...100	0...300	0...1000	0...5 000
Maximum overload, ppm	200	500	1500	10 000
Response time T90, s	< 75	< 75	< 75	< 120
Resolution, ppm	1			
Sensor lifetime	> 2 years			
Maintenance interval	6 months			
Signal update	Every 1 second			
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			
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			
Enclosure	Die-cast aluminium, wall mount, protection class IP66			
Dimensions	H120 × W125 × D57 mm			
Operating environment	Industrial indoor and outdoor locations			
Operating conditions	-40...+50°C, -30...+50°C (for 0...5 000 ppm), 15...90 %RH non-condensing; 0,9...1,1 atm; Explosion safe areas; Non-aggressive atmosphere NOTE! The device is not suitable for areas with constantly high ammonia concentration. NOTE! We offer technical solutions for extreme humidity, please ask for more information			

Dimensions



Ask for other versions or custom designed products



Additional options

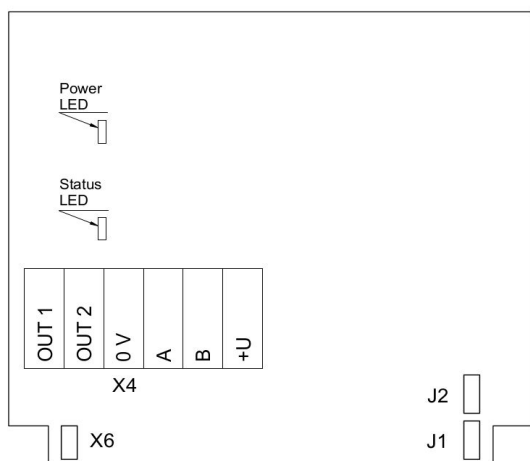
Relay option (ordering code R)

Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm setpoints	For 0...100 ppm range: RE1 (LOW): set 25; release 20 ppm RE2 (HIGH): set 35; release 28 ppm For other ranges: defined by user within 5-95% of the detection range

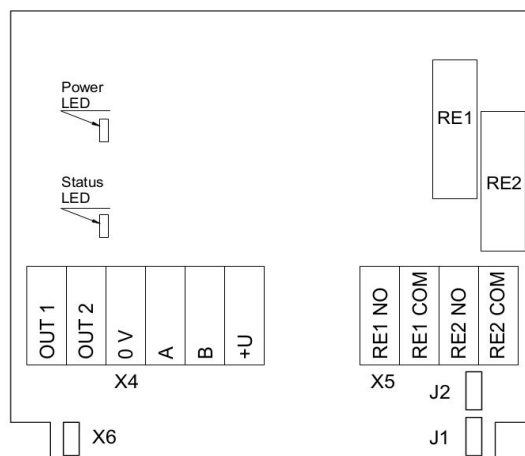
Other options

Remote sensor probe	Protection IP65, shielded cable default cable length 3.0 m
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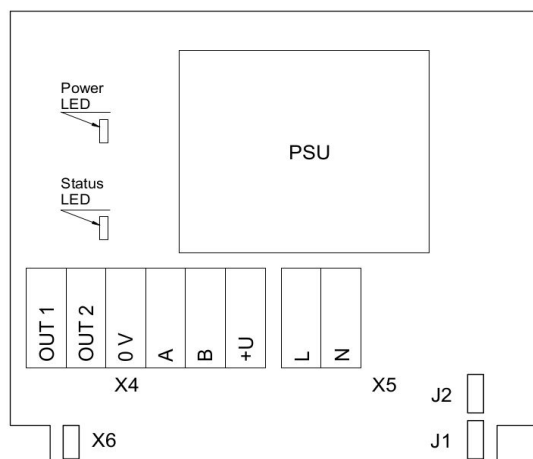
Connection diagrams



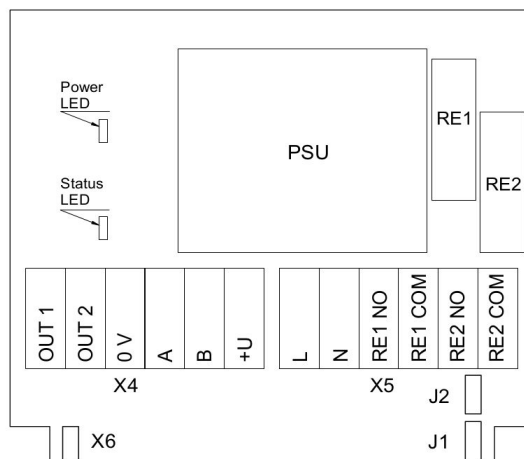
Version without PSU and relays



Version without PSU and with relays



Version with PSU and without relays



Version with PSU and relays



Jumpers

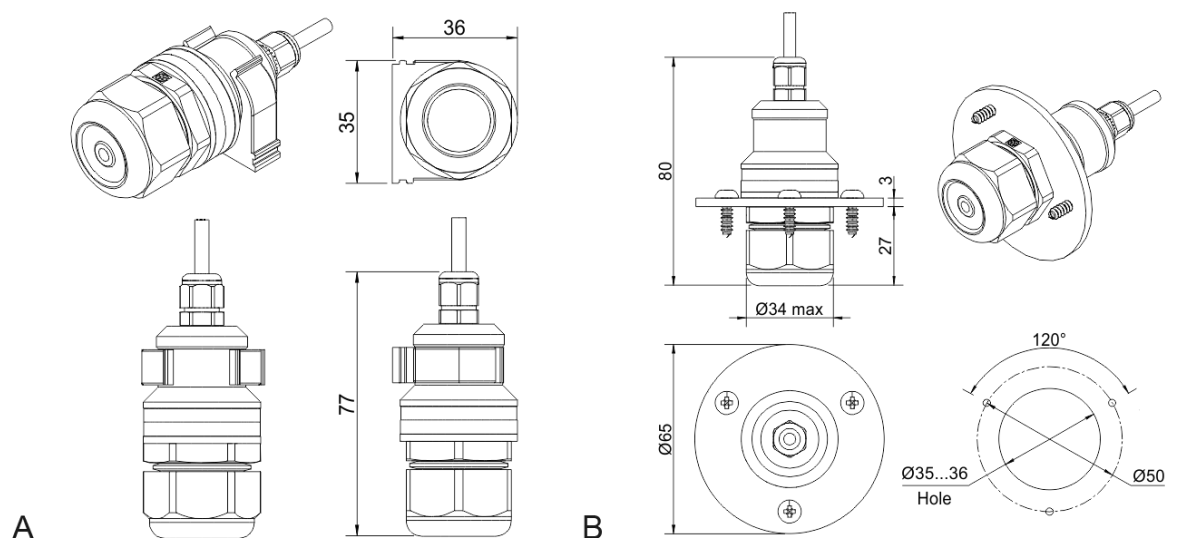
J1	OUT1 type (open: 4-20 mA; closed 0-10 V)
J2	OUT2 type (open: 4-20 mA; closed 0-10 V)
X6	Reset Modbus network parameters to default

X4 terminals

OUT1	4-20 mA / 0-10 V output
OUT2	4-20 mA / 0-10 V output
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

Remote probe

Wall mount remote probe with fixing clamp (default version)

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

