# **Evikon**



CE

# Ammonia Detector-Transmitter E2648-NH3-E





Ammonia NH<sub>a</sub>

### 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 Sensor type Sampling method Typical detection ranges Maximum overload Resolution Response time T90 Sensor lifetime Maintenance interval Signal update Self-diagnostics Warm-up time Power supply
- Power consumption Digital interface Analog outputs Output scale width

#### Enclosure

Dimensions Operating environment Operating conditions

Relay option (ordering code R) Output relays

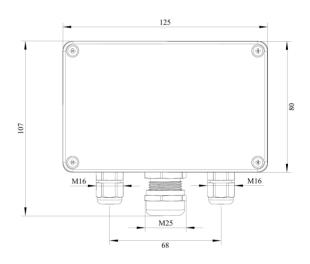
Default alarm setpoints

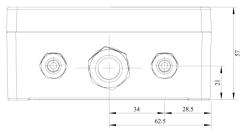
Other options Remote sensor probe Electrochemical Diffusion 0...100 ppm 0...300 ppm 0...1000 ppm 1500 ppm 200 ppm 500 ppm 1 ppm 1 ppm 1 ppm <75 s > 2 years 6 months Every 1 second Full functionality check at start-up ≤ 1 min 12...36 VDC (default) 24 VAC or 230 VAC as options < 2 VA RS485, Modbus RTU protocol 2 × 4-20 mA / 0-10 V, user settable Recommended: 20-100% of the range; > 10 × resolution in any case Die-cast aluminium, wall mount, protection class IP66 H120 × W125 × D57 mm Industrial indoor and outdoor locations -40...+50°C, 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 2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max 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

Protection IP65, shielded cable

default cable length 3.0 m

### Dimensions

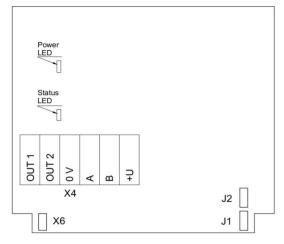




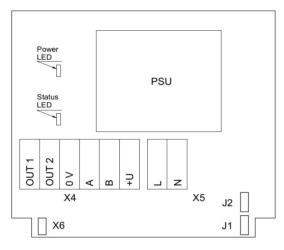
X



## **Connection diagrams**



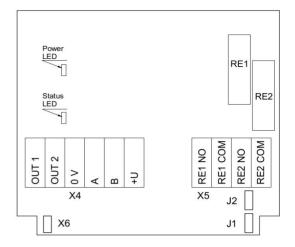
Version without PSU and relays



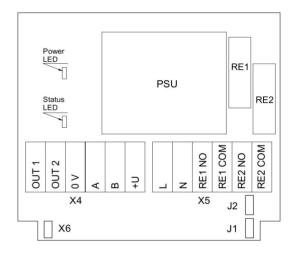
Version with PSU and without relays

#### 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)
Α	RS485 A / Data +
В	RS485 B / Data -
+U	+24 VDC / 24 VAC Phase (optional)
X5 terminals (optional)	
L	90265 VAC Phase
Ν	90265 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



Version without PSU and with relays

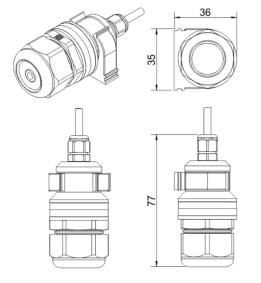


Version with PSU and relays

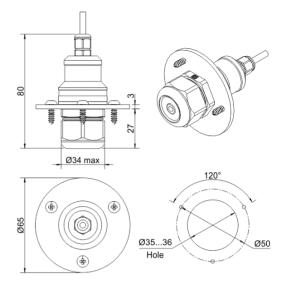


### **Remote probe**

А



Wall mount remote probe with fixing clamp (default version)



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

В