CE

Ammonia Detector-Transmitter E2638-NH3-E





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

Evikon

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

Enclosure

Dimensions

Operating environment Operating conditions

Ammonia NH₃ Electrochemical Diffusion 0...100 ppm 0...300 ppm 0...1000 ppm 200 ppm 500 ppm 1500 ppm 1 ppm 1 ppm < 75s Every 1 second > 2 years 6 months 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

1 ppm

Grey ABS plastic, wall mount, protection class IP65

H90 × W145 × D50 mm (housing only) H140 with cable glands

Industrial indoor and outdoor locations -40...+50°C, 15...90 %RH non-condensing; 0,9...1,1 atm;

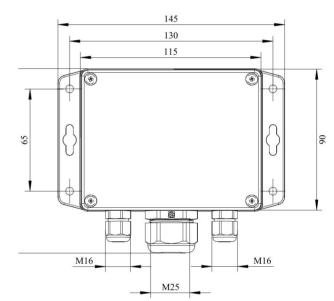
Explosion-safe areas; Non-aggressive atmosphere

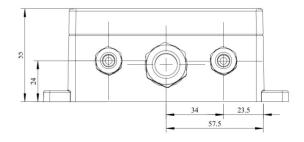
NOTE! The device is not suitable for areas with

constantly high ammonia concentration; NOTE! We offer technical solutions for extreme

humidity, please ask for more information.

Dimensions





Ask for other versions or custom designed products

X

Additional options

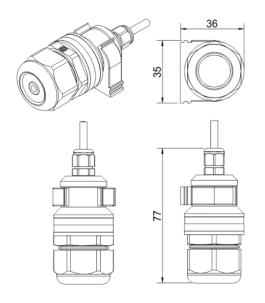
Remote sensor probe	Protection IP65, shielded cable default cable length 3.0 m
Self-test button	Triggers both relays simultaneously; push-button switch
Relay outputs	
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	For 0100 ppm range: RE1 (LOW): set 25; release 20 ppm RE2 (HIGH): set 35; release 28 ppm For other ranges: defined by user within 5-95% of the detection range
Alarm signalling	
Visual	Red and green LEDs
Acoustic	Buzzer 85 dB
LCD indicator	
Operating temperature	0+50 °C
Display dimensions	72 × 36 mm
Number of digits	
	3.5 digit 7-segment
Character height	3.5 digit 7-segment 14 mm
C C	0 0

NOTE! Only second analog output (OUT2) is available for a version with LCD.

NOTE! LCD and LEDs can not be chosen simultaneously.

Remote probe

А



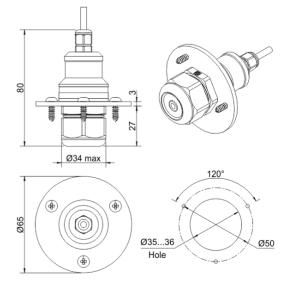
Wall mount remote probe with fixing clamp (default version)

Version with built-in LCD indicator



Version with remote LCD indicator





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

В

Connection diagrams



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