

LCD
indicator
option

IP65

4-20 mA
0-10 V

RS485
Modbus

Ammonia Detector-Transmitter E2638-NH3-S



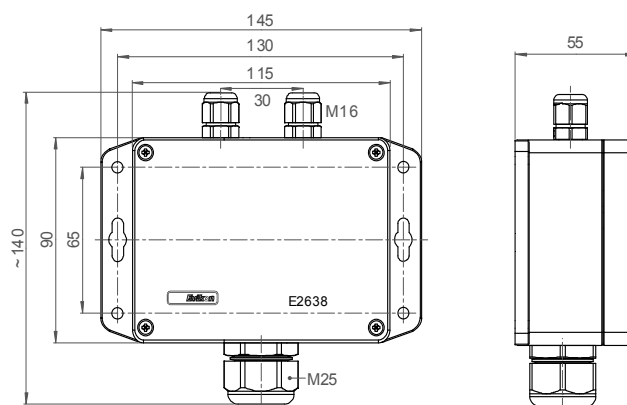
Features

- Accurate and stable measurement
- Easy to install robust enclosure
- Remote probe option
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Relay option
- LCD indicator option

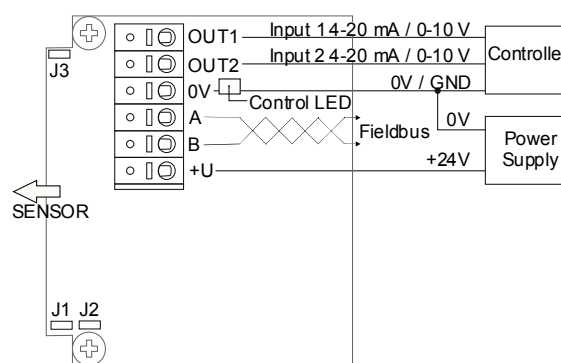
Specifications

Calibration	Ammonia NH ₃
Sensor type	Metal oxide semiconductor (MOS)
Sampling method	Diffusion
Typical detection range	0...1000 ppm
Resolution / digital unit	1 ppm
Response time T90	ca. 60 s
Signal update	Every 1 second
Maintenance interval	12 months
Sensor lifetime	> 5 years
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
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	Grey ABS plastic, IP65
Dimensions	H90 × W145 × D55 mm
Operating conditions	-40...+50 °C; <95 %RH, atmospheric pressure ±10%; Non ATEX rated spaces Normal ambient oxygen level

Dimensions



Connection diagram



J1: OUT1 type (open: 4-20 mA; dosed: 0-10 V)
J2: OUT2 type (open: 4-20 mA; dosed: 0-10 V)
J3: return to factory settings



Additional options

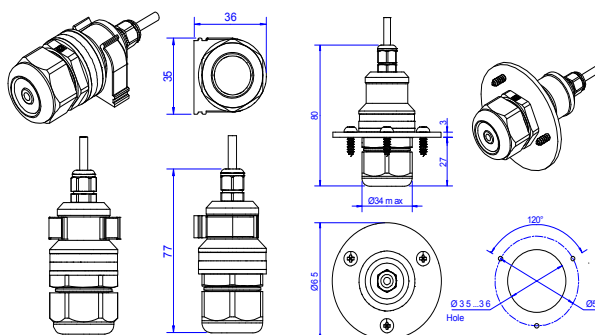
Remote sensor probe	Protection IP65, shielded cable default cable length 3.0 m
Relay outputs	
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	RE1 (LOW): set 25; release 20 ppm RE2 (HIGH): set 35; release 28 ppm
Visual alarm	Red and green LEDs (option)
Acoustic alarm	Buzzer 85 dB (option)

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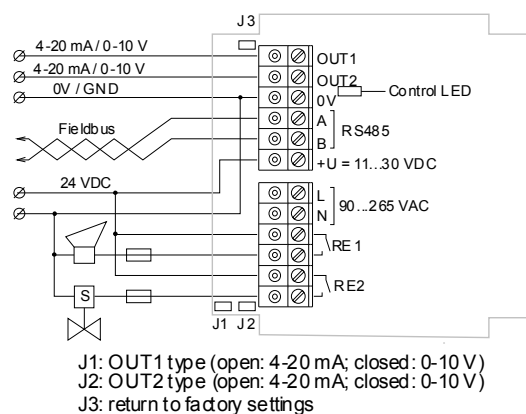
Operating temperature	0...+50 °C,
Display dimensions	72 × 36 mm
Number of digits	3.5 7-segment
Character height	14 mm
Other features	Backlight
Note: only one analog output is available for a version with LCD	

[Ask for other versions or custom designed products](#)

Remote probe



Connection diagram for relay version



LCD indicator option

