

Flameproof Ammonia Detector-Transmitter E2658-NH3-S



Features

- Wall mount robust flameproof metal enclosure
- Suitable for ATEX Zones 2 and 22
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Relay option

Specifications

Detected gases	Ammonia NH ₃
Sensor type	Metal oxide semiconductor
Sampling method	Diffusion
Typical detection range	0...1000 ppm
Resolution	1 ppm
Response time T90	ca. 60 s
Sensor lifetime	> 5 years
Calibration interval	12 months
Signal update	Every 1 second
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC (default), 24 VAC or 90...265 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	Grey die-cast aluminium, protection class IP66
Dimensions	H80 × W125 × D57 / H80 × W175 × D80 mm
Operating environment	Industrial indoor and outdoor locations
Operating conditions	-40...+50 °C; <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.

Relay option (ordering code R)

Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm setpoints	RE1 (LOW): set 25; release 20 ppm RE2 (HIGH): set 35; release 28 ppm

Approvals

Enclosure:

ATEX / IECEx

DEMKO 13 ATEX 1327771U



II 2 G Ex c IIC Gb



II 2 D Ex tb IIIC Db IP66

Glands:

ATEX / IECEx

IBExU08ATEX 1063 X Ex II 1D Ex tD A20 IP 6x Ex



II 2G Ex e II IP68

CE conformity

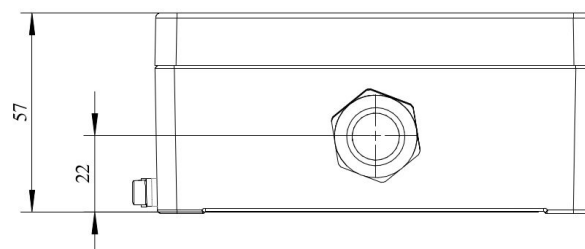
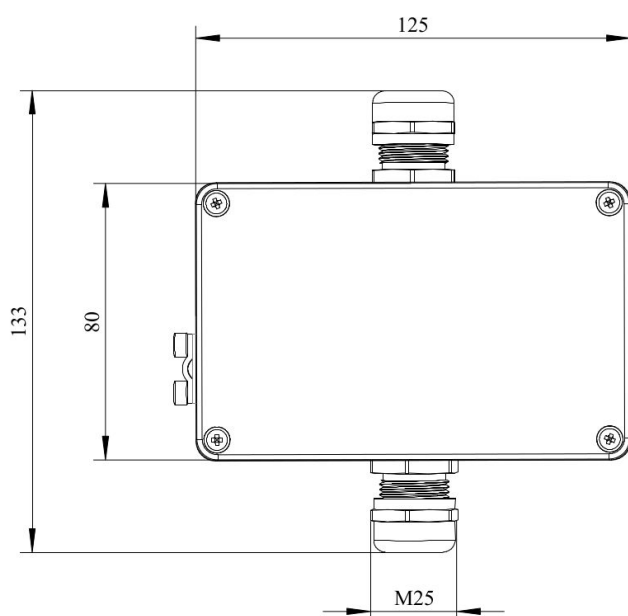
Flameproof to IEC EN 60079-1

Increased safety to IEC EN 60079-7

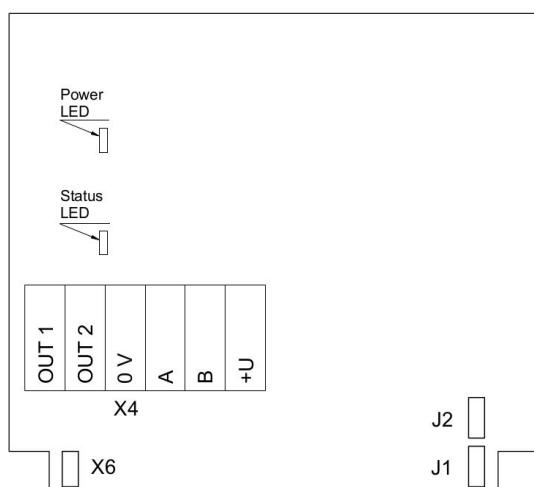
EMC Emissions to EN 61000-6-3, EN 61326-1

EMC Immunity to EN 61000-6-1, EN 61000-6-2

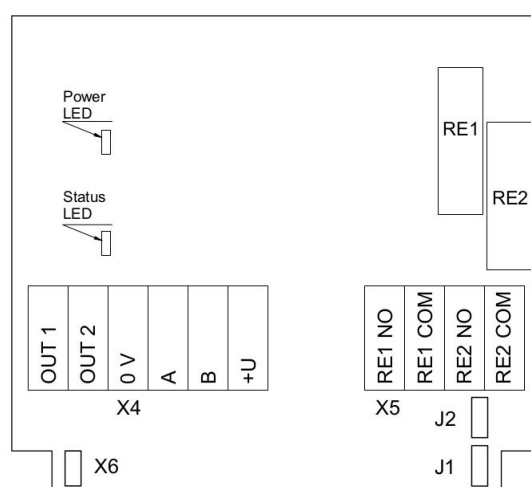
Dimensions



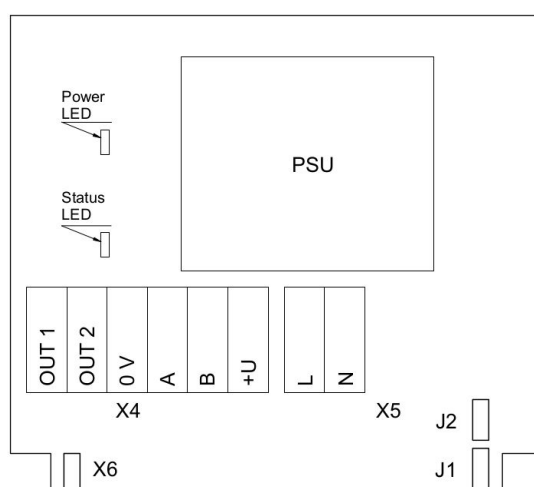
Connection diagrams



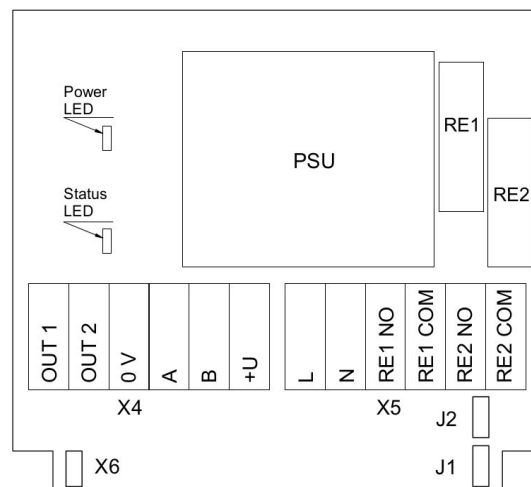
Version without PSU and relays



Version without PSU and with relays



Version with PSU and without relays



Version with PSU and relays

