

Flameproof Solvent Vapors Detector-Transmitter E2658-VOC



Specifications

Detected vapors	Acetone, Benzene, Ethanol, Ethyl Acetate, Toluene, Xylenes etc	
Default calibration	Toluene	
Sensor type	Metal-oxide semiconductor	
Sampling method	Diffusion	
Typical detection range	0...100% LEL	0...100 to 1...1000 ppm
Resolution	0,1 %LEL	1 ppm
Response time T90	< 120 seconds	
Sensor lifetime	> 5 years	
Maintenance interval	12 monthss	
Signal update	Every 1 second	
Self-diagnostics	Full functionality check at start-up	
Warm-up time	≤ 1 min	
Power supply	11...30 VDC / 24 VAC Option: 90...265 VAC power unit	
Power consumption	< 2 VA	
Digital interface	RS485, Modbus RTU protocol	
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Enclosure	Grey die-cast aluminium, protection class IP66	
Dimensions	H120 × W125 × D57 mm	
Protection	flameproof, ATEX: II 2 GD, Ex ed IIC T4 Gb	
Cable gland	M25 for SWA cable or steel conduit Ø10...17 mm	
Wire conductors	0,5...1,5 mm ²	
Operating environment	Industrial indoor and outdoor areas Safe areas and ATEX Zones 2 and 22	
Operating conditions	-30...+70 °C, <95 %RH; pressure 0,9...1,1 atm; normal ambient oxygen level; avoid strong mechanical shock, vibrations, EMI; avoid exposure to corrosive gases or silicone containing products	

Relay option (ordering code R)

Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points (set/release)	RE1 (LO): 20/16 % LEL; RE1 (LO): 100/80 ppm; RE2 (HI): 50/40% LEL; RE2 (HI): 300/240 ppm (for 0...500 ppm range)

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

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

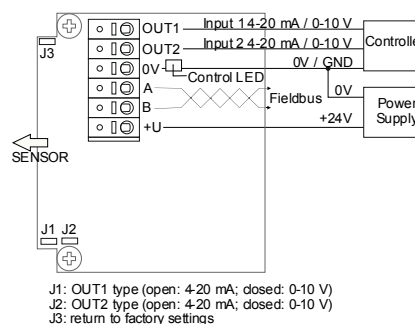
Flameproofed to IEC EN 60079-1

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

Connection diagram for basic version



Connection diagram for version with relays

