

DATASHEET

E2648

Evikon

Distributed by AKRIBIS





Ozone Detector-Transmitter E2648-O3



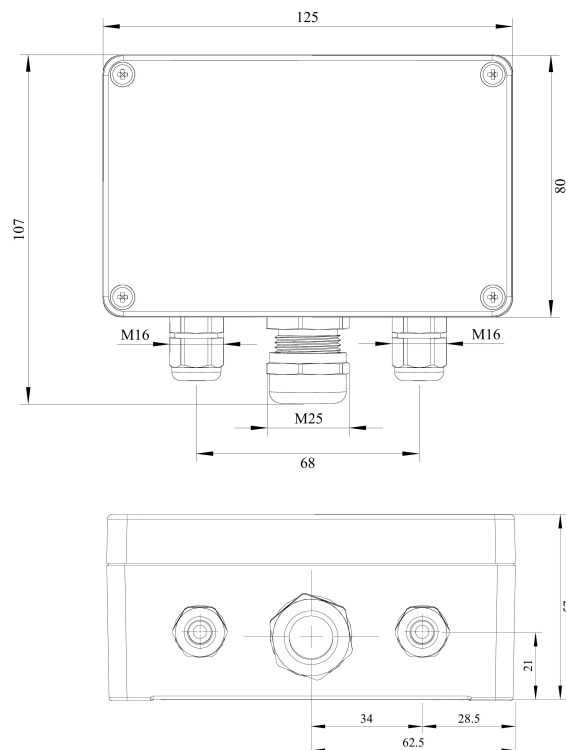
Features

- 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

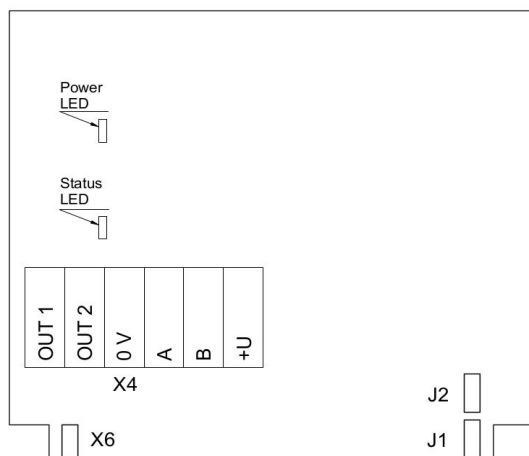
Specifications

Calibration	Ozone O ₃	
Sensor type	Electrochemical	
Sampling method	Diffusion	
Detection ranges	0...5 ppm	0...1 ppm
Maximum overload	50 ppm	5 ppm
Resolution	0.01 ppm	0.01 ppm
Response time	< 60 s (T80)	≤ 90 s (T90)
Sensor lifetime	> 2 years	> 18 months
Maintenance interval	6 months	12 months
Operating temperature	-40...+50 °C	-20...+40 °C
Signal update	Every 1 second	
Self-diagnostics	Full functionality check at start-up	
Warm-up time	≤ 1 min	
Power supply options	12...36 VDC (default)	
	24 VAC or 230 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	Die-cast aluminium, wall mount, protection class IP66	
Dimensions	H120 × W125 × D57 mm	
Operating environment	Industrial indoor and outdoor locations	
Operating conditions	(operating temperature is specified above) 15...90% RH non-condensing; 0,9...1,1 atm Explosion safe areas Non-aggressive atmosphere NOTE! We offer technical solutions for extreme humidity, please ask for more information	
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 0.3 ppm, release 0.24 ppm RE2 (HIGH): set 1 ppm, release 0.8 ppm	
Other options		
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m	

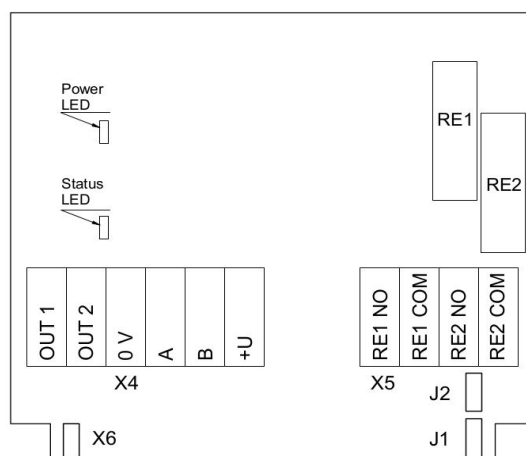
Dimensions



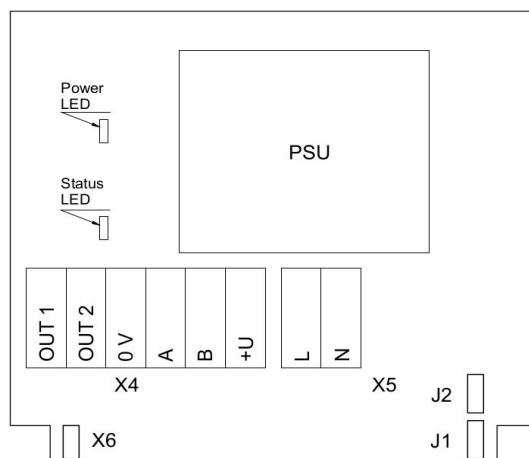
Connection diagrams



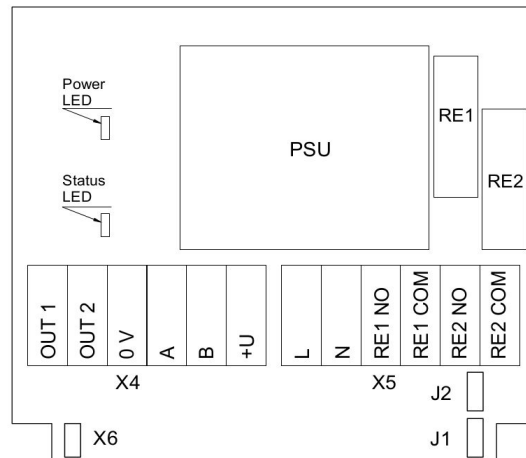
Version without PSU and relays



Version without PSU and with relays



Version with PSU and without relays



Version with PSU and relays

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)
A RS485 A / Data +
B RS485 B / Data -
+U +24 VDC / 24 VAC Phase (optional)

X5 terminals (optional)

- L** 90...265 VAC Phase
N 90...265 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



