Evikon

CE

Oxygen Detector-Transmitter E2638-O2





Specifications

Calibration Sensor type

Sampling method Detection range 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

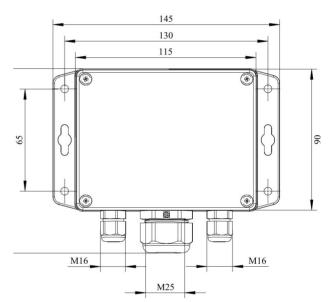
Operating environment Operating conditions

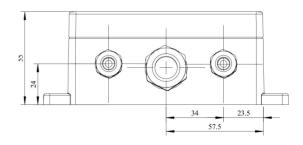
Oxygen O₂ 2-year Electrochemical 3-year Electrochemical (order code O2-3Y) 5-year Electrochemical (order code O2-5Y) Diffusion 0...25% vol. 0.01 % vol. < 10 s < 15 s (O2-3Y) Every 1 second > 2 years > 3 years (for O2-3Y) > 5 years (for O2-5Y) 6 months Full functionality check at start-up ≤ 1 min 12...36 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 Grey ABS plastic, wall mount, protection class IP65 H90 × W145 × D50 mm (housing only) H140 with cable glands Industrial indoor and outdoor locations 15...90% RH: 5...95% RH (O2-3Y); Non-condensing; 0,9...1,1 atm; Explosion-safe areas; Non-aggressive atmosphere -30...+50 °C -30...+55 °C (for O2-3Y) -40...+60 °C (for O2-5Y) NOTE! We offer technical solutions for extreme humidity, please ask for more

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

Dimensions





X

information

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	RE1 (HIGH): set 19.5%, release 20.5% RE2 (LOW):set 18%, release 19%
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 7-segment
Character height	14 mm
Other features	Backlight
Protection class	IP50 (both for built-in and remote LCD options)

NOTE! Only second analog output (OUT2) is available for a version with LCD. NOTE! LCD and LEDs can not be chosen simultaneously.

Version with built-in LCD indicator

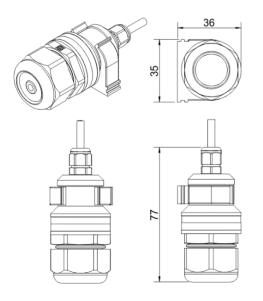


Version with remote LCD indicator

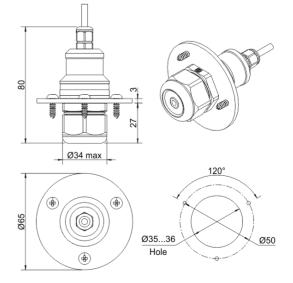


Remote probe

А



Wall mount remote probe with fixing clamp (default version)



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

X

В

X

Connection diagrams



Jumpers

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