

Oxygen Transmitter

OXY-ProXT2

- Wide range measurement capability - ppm to 25 %
- Configuration A: two independent 25% sensors
- Configuration B (coarse range + fine range):
 - Ch1: 25% sensor
 - Ch2: 1.25% sensor, activated by Ch1
- Pre-calibrated smart sensors
- Customized configurations on request

Description

With current-limiting zirconia sensors, OXY-ProXT2 delivers a long-life, reliable solution capable of an extended measurement range. Factory-calibration with data points stored in the smart oxygen sensors, streamline sensor replacement, saving time and simplifying your process.

In configuration B the high-resolution fine range sensor will ensure high accuracy at lower oxygen concentrations for optimal process O₂-monitoring.

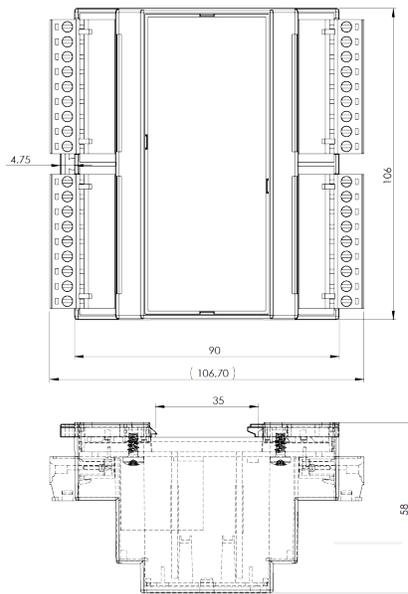
Specifications

General sensor specification		
	Channel 1 / 2	Channel 2
Measurement Range	0...25.0 %	0...1.25 %
Accuracy (at constant conditions)	1 % FS	1 % FS
Output Resolution (4...20 mA)	0.025 %	12 ppm _v
Lower Detection Limit	1000 ppm _v	50 ppm _v
Maximum flow velocity	6 m/s (19.7 ft/s)	
Pressure Range	700...1300 mbara (10...19 psia)	
Maximum Safe Pressure	2500 mbara (36 psia)	
Response Time (T90)	Depends on selected sensor housing (fastest option < 5 seconds)	
Operating Temperature Range (Sensor head)	+10...+100 °C (+50...+212 °F)	
Operating Temperature Range (Sensor plug)	+10...+75 °C (+50...+165 °F)	
Life Expectancy (application dependent)	Up to 5 years	
Humidity (with normal use)	0...90 %rh @ 40 °C (104 °F) non-condensing	
Available housing configurations	D0 (M16 x 1.5 male), D2 (M16 x 1.5 male), D3 (M18 x 1.5 male), B1 (TO8 + flange)	
Shelf Life	Unlimited	
Calibration Interval	No calibration required. Calibration data stored in smart sensor	



Analyzer (Monitor)	
Electrical	
Output signal	4...20 mA per channel Optional: 0...5V per channel
Digital communications	RS485 Modbus RTU / 1 address per channel
Relay contact output	24 V DC / 100 mA controlled by an O2-alarm-level (programmable via RS485)
Electrical interface	8-pin M12 on sensor, extension cable from sensor plug to screw terminal on monitor
Operating temperature range (monitor)	+10...+50 °C (+50...+122 °F)
Power Supply	24 V DC ± 2
Maximum power consumption	12 W or 0.5 A
Mechanical	
Ingress protection	IP40 (monitor), IP66 (sensor plug)
Housing material	PC (UL 94 V-0)
Mounting	DIN rail
Sensor cable length (supplied)	50 cm (19.6 in)
Extension cable length	Standard: 3 m (9.8 ft)
Compliance	
CE: According to EU directive EN ISO13849 (performance level non-SIL applications only) and EN 61010-1	

Dimensions (mm)



Sensor Pair



Extension Cord

Housings: Measuring Side: porous sinter metal disc or cap 1.4404 stainless steel



DO: M16 x 1.5 MALE nickel-plated steel housing, with porous stainless steel sinter cap



D2: M16 x 1.5 MALE aluminium housing, with porous stainless steel sinter disc



D3: M18 x 1.5 MALE housing, with porous stainless steel sinter cap



B1: Flange nickel plated housing with stainless steel mesh

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Sensor Type	Channel Configuration Range Selection	Ext Cable Length
D0 (M16 x 1.5 MALE Steel)	A (ch1: 25% ch2: 25%)	100 (1m)
D2 (M16 x 1.5 MALE Al)	B (ch1: 25% ch2: 1.25%)	300 (3m)
D3 (M18 x 1.5 MALE)	Contact SENSORE for customized configurations	
B1 (TO8) Flange		

We adopt a continuous development program, which sometimes necessitates specification changes without notice.

For technical assistance or enquiries about other options, please contact us here: sensors@dwyeromega.com