Oxygen Transmitter

Microx ProSafe SIL2

- Wide range measurement capability ppm to 23.5 %
- SIL2-certified*
- Two independent measurement channels dual range
- Pre-calibrated smart sensors

Description

With current-limiting zirconia sensors, Microx ProSafe SIL2 delivers a long-life, reliable solution capable of an extended measurement range. This dual-channel transmitter features a SIL-capable alarm set-point for management of gas quality and personnel safety. Factory-calibration with data points stored in the smart oxygen sensors, streamline sensor replacement, saving time and simplifying your process.

A high-resolution sensor in the low measuring range ensures the highest accuracy in the process operating point with Microx ProSafe SIL2.

Specifications

Transmitter		
Electrical		
Output signal	420 mA (1920 mA Error State) 19 mA = 23.5 %	
Digital communications	RS485 per channel	
O ₂ Safety Threshold	1, 1.5 or 2 %	
Relay Contact Output	Controlled by factory-configured O2 safety threshold stored in smart sensor	
Electrical Interface	8-pin M12 on sensor, extension cable from sensor plug to screw terminal on monitor	
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: 1 m (3.28 ft) Optional: 3 m (9.8 ft)	
Compliance		

Compliance

CE: According to EU directives 2006/42/EC (machinery), 2014/30/EC (EMC) and 2011/65/EU (RoHS)
SIL2: According to EN IEC 62061; PLd: According to EN ISO 13849-1; EMC: According to EN 50270:

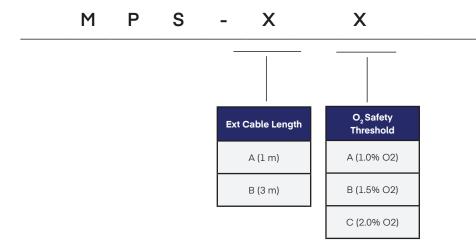






Sensor	Zirconia (ZR)		
	Channel 1	Channel 2	
Measurement Range	023.5 %	02.35 %	
Accuracy (at constant conditions)	1 % FS	1 % FS	
Output Resolution (420 mA)	0.025 %	25 ppmV	
Lower Detection Limit	$1000~\mathrm{ppm_v}$	$100 \text{ ppm}_{\text{v}}$	
Maximum flow velocity	6 m/s (19.7 ft/s)		
Pressure Range	7001300 mBarabs (1019 psi)		
Maximum Safe Pressure	1.5 barg (21 psig)		
Response Time (T90)	< 10 seconds		
Operating Temperature Range (Sensor head)	+10+100 °C (+50+212 °F)		
Operating Temperature Range (Sensor plug)	+10+75 °C (+50+165 °F)		
Operating Temperature Range (Monitor)	+10+50 °C (+50+122 °F)		
Life Expectancy (application dependent)	Up to 5 years		
Humidity (with normal use)	090 %rh @ 40 °C (104 °F) non- condensing		
Process Connections	M18 x 1.5 m	M18 x 1.5 male	
Shelf Life	Unlimited	Unlimited	
Calibration Interval	No calibration required. Calibration data stored in smart sensor.		





Dimensions (mm)



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



Improving the world, one measurement at a time.







