



Instrinsically Safe Oxygen Transmitter



The Minox i is a highly reliable and cost-effective two-wire, loop-powered transmitter with a linearized 4 to 20 mA output. The standard offering has a detection measurement range of 0-25% oxygen.

This compact transmitter utilizes electrochemical sensor technology and is also available with a solid state ceramic sensor, both of which provide a long sensor life with a high level of accuracy and stability.

ATEX Certified (Ex) II 1GD



Applications

- » Nitrogen generation
- » Additive manufacturing
- » Glove box purge and leak detection
- » Pharmaceutical applications

Plug & Play Technology

Features

- » Electrochemical or Solid State sensor technology options
- » Measurement range 0 to 25% O_2
- » 24VDC loop powered
- » M12 electrical connection
- » Choice of flowthrough, tri-clamp and KF40 flange process connections as standard
- » Combined sensor and electronics. allows for ease of integration.
- » Robust device (< 0.8Kgs)</p>
- » Stainless steel housing

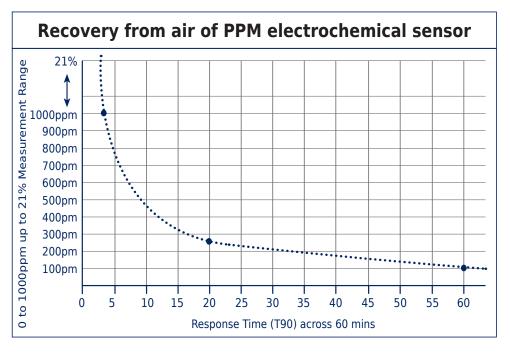


Minox i

Technical Specifications

Instrinsically Safe Oxygen Transmitter

Performance						
Transmitter Model	Minox i					
Measurement technology	Solid state ceramic	Electrochemical (EC)				
Measurement range*	0 to 25%					
Output resolution (for %)	0.01%					
Accuracy	+/-2% of reading (or 2ppm O2) @ calibrated temperature and pressure					
Response time (T90)	<10 seconds @ 25°C (within selected range)					
LDL (Sensitivity)	0.01% (when measuring %) / 1ppm (when measuring ppm)					
Temperature range	-20°C to +50°C	0°C to +45°C				
Pressure range	900 to 1100 mBar _{abs}					
Linearity	+/- 2% of reading					
Life expectation	3-5 years	1 year				
Humidity	0-95% RH non-condensing					
Shelf life	No shelf life					
Electrical Input / Output						
Power supply	24VDC +/- 10%					
Power consumption	Maximum 50mA @ 24VDC					
Signal output	4-20mA					
Electrical interface	M12 x 1.5 connection					
Cable length	1 metre / 3 metre / 10 metre					
Mechanical Specifications						
Dimensions	47mm Diameter x 120mm to 140mm depending on connection type					
Weight	0.260kg					
Wetted materials	Stainless Steel or Aluminium and PTFE, Viton					
Process connection	Flowthrough / 2" Tri-clamp / KF40 Flange					
Ingress protection	IP 66					
Housing material	Anodised aluminium or Stainless Steel					
Certification						
Complies with EMC Directive 2004 / 108 / EC. UL/ETL Certification Number: UL-61010-1						

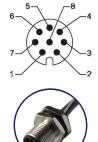


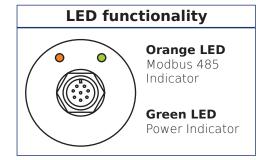
* Outputs can be factory set to other ranges. Please see order code sheet for details.

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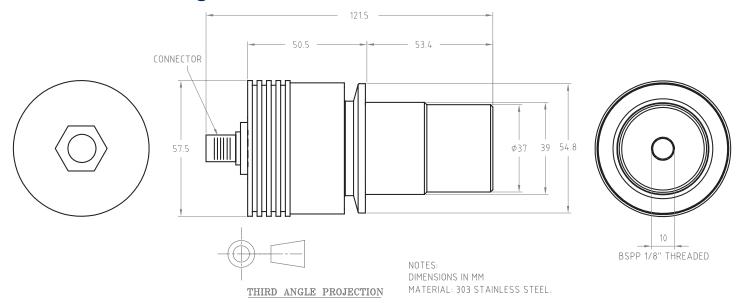
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M12 Connector Pin Assignment					
Pin	Assignment	Cable Core Colour			
1	Not Used (Note 1)	Black			
2	Not Used (Note 1)	Brown			
3	Analogue Output Ground	Green			
4	Serial RS485 (B)	Yellow			
5	Serial RS485(A)	Grey			
6	Power Ground OVDC	White			
7	Power Supply +24VDC	Blue			
8	Analogue Output (mA)(Note 1)	Red			





Technical Drawings



Ordering information

Model	Range	Sensor type	Power supply	Process Connection	Part no
Minox i 201	0 - 25%	Electrochemical: OC-90	24 VDC Loop Powered	Flow Through	05-418
Minox i 200	0 - 25%	Electrochemical: OC-90	24 VDC Loop Powered	Tri-clamp	06-648
Minox i 200	0 - 25%	Electrochemical: OC-90	24 VDC Loop Powered	KF-40	05-549
Minox i 200	0 - 25%	Solid State Ceramic: OC-92	24 VDC Loop Powered	Flow Through	06-095
Minox i 200	0 - 25%	Solid State Ceramic: OC-92	24 VDC Loop Powered	Tri-clamp	06-649
Minox i 200	0 - 25%	Solid State Ceramic: OC-92	24 VDC Loop Powered	KF-40	06-144

Related Products



MICROX Oxygen Analyser



SF82 Dew Point Transmitter



SenzTx Oxygen Transmitter



Gasenz Ambient O₂ Monitor



Microx - OL Online O₂ Analyser



Yellow Box Portable O₂ Analyser



Portable Oxygen & Moisture Measurement



Notes:
1. Cable cores that are not used must be insulated / heat-shrinked.