

Minox i 200

Intrinsically 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 utilises advanced galvanic fuel cell technology that provides a long sensor life with a high level of accuracy and stability.



ATEX Certified  II 1GD

Features

- Measurement range: 0-25%
- Electrochemical Sensor Technology
- Industry Standard 4-20mA Output
- 24VDC Power Supply
- M12 Electrical Connection
- Process Connection KF40 as standard with Flowcell optional

Low Maintenance and Cost of Ownership

The Nitron Electrochemical Oxygen sensor has an extremely long life expectation in the region of 2-3 years under normal operation. Due to the highly stable nature of the sensor, a calibration interval of once per year is required, allowing for significant cost savings.

Applications

An oxygen Sensor transmitter for use in:

- Glove box purge and leak detection
- Additive Manufacturing
- Gas Generation (Oxygen / Nitrogen)
- Semiconductor wafer machines
- Wave Soldering
- Membrane air separators
- Inert welding gases
- Inert Ovens
- Medical Gas Applications
- Pharmaceutical Industries
- Food and Beverage Industries
- Gas Generation Industries

Proven Sensor Technology

The compact Electrochemical sensor offers a simple and effective method for installation into OEM equipment. The robust design of the sensor assures accurate measurement as well as a quick response characteristic to serve a wide range of oxygen measurement applications.

Minox i 200 Product specifications

Measured Gas / Range	Oxygen / 0-25%
Oxygen Sensor	Ntron Oxygen Sensor, Electrochemical. Model OC-95 (05-625)
Response Time (T90)	<10 seconds
Power Requirements	24VDC +/- 10%, Max 160mA
Output Signal	4 to 20mA
Accuracy:	+/- 2% of reading
Temperature range:	-20°C to +45°C
LDL (Lowest Detection Limit)	0.02% O ₂
Process Connection	KF40 Tri-Clamp Connection
European Compliance	Complies with EMC Directive 2004/108/EC

Minox i 200 Ordering information

Product	Sensor	Measurement Range	Connection	In-Built Orifice	Part No.
Minox i 200	EC	0-25%	KF40 Triclamp	N/A	05-549
OC-95	EC	0-25%			05-625

Minox i 200 Technical drawing

