

# 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

## 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

## 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 Ntron 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.

### 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.

**EXCELLENCE  
THROUGH DIVERSITY**

**Datasheet:**

D-05-549-P-001

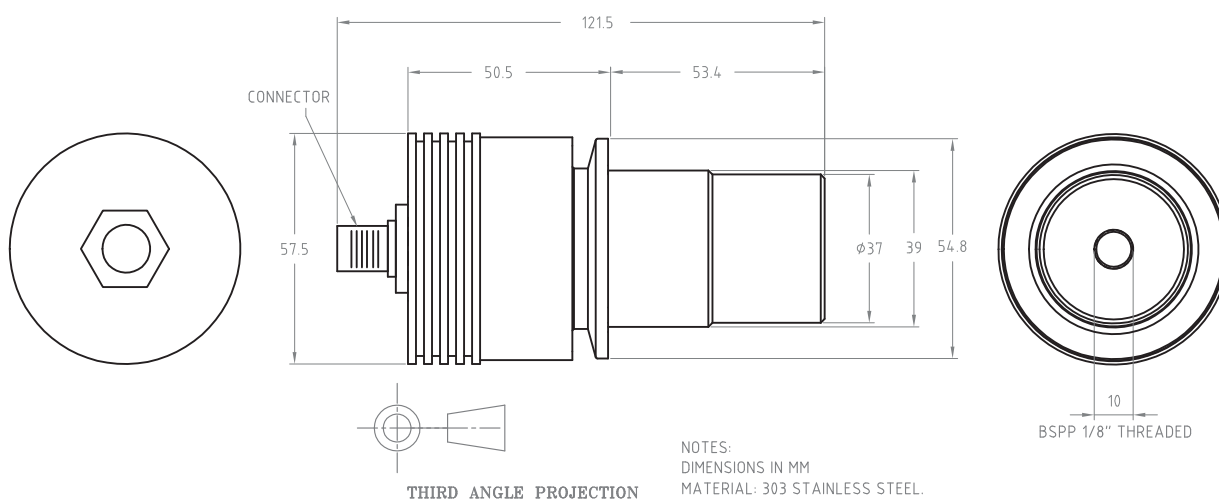
## Minox i 200 Product specifications

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



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