

SIL O₂ 109 Oxygen Analyser



The Ntron SIL O₂ 109 Oxygen Analyser has been designed to specifically address the OEM market's requirements for a low cost SIL2 rated oxygen analyser for inertisation applications.

The SIL O₂ 109 Oxygen Analyser utilises two continuous self-monitoring microprocessors. The complete system (analyser and sensor) meets the requirements of IEC 61508 SIL2.

A fast response, high repeatability and no sensor drift make this analyser a low maintenance solution that delivers reliable performance for safety critical, process control applications.

Applications

An Oxygen Analyser for use in:

- Additive Manufacturing
- Glove box purge and leak detection
- Air Separation
- Wave Soldering
- Inert Ovens

Features

- Meets the requirements of IEC61598 SIL2
- Measurement ranges: 0 - 25% O₂
- Solid State Ceramic sensor technology
- Suited to harsh process applications
- Fast response time
- Din rail mounting
- LCD display
- Analogue 4 to 20mA output for retransmission of measured signal (SIL2 Rated)
- RS232 communications
- 24VDC power supply
- 2 Configurable alarm relays (SIL2 rated)
- 1 Transistor output
- 2 pushbuttons for span calibration
- Process Connection: KF-40

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Product specifications

Gas Type / Range	Oxygen / 0 - 25%
Sensor Technology	Solid State Ceramic sensor technology
Sensor Type	Ntron Oxygen Sensor - OC-26
Accuracy	± 2% of reading at 20°C
Response Time (T90)	<10 seconds
Warm Up Time	15 seconds
Expected Sensor Life	3 -5 years
Relative Humidity	0 - 95% non-condensing
Operating Temperature	-20°C to 50°C
Sample Pressure	Vented to atmosphere during operation and calibration
Display	4 Digit LCD display & LED indication for Alarm / Fault
Power Requirements	24VDC ± 10%, 1.2 Amps
Analogue Output	4 to 20mA, Linearity is ± 1%
Relay Outputs	2 Relay contacts, 1 transistor (SIL2 Rated)
Serial Communication	RS 232
Warranty	12 Months from date of shipping
Dimensions	114.5mm (h) x 67mm (w) x 99mm (d)
Weight	300g Din Rail Mount
Mounting	Din Rail Mount
Environmental Rating	IP 20 analyser. Up to IP67 application dependent for sensor
Certification	CE, ATEX (EN 60079-0, EN 60079-11, EN 60079-26) EMV 204/108/EG (EN 61000-6-2, EN 61000-6-4) EN61326-1-SIL2 to IEC 61508/61511

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Ordering information

Product	Sensor Type	Measurement Range	Process Connection	Part No.
SIL O ₂ 109	Zirconia	0 to 25%	KF-40	04-908
Standard Cable Length - 3 metres				

Components	Drawing Number	Part Number
SIL O ₂ Module	E511	01-758
OC-26 O ₂ Sensor	E510	04-909

Please note: Ntron Ltd. adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version.

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