

Thermo Scientific Model 48i Series Analyzers with Oxygen Sensor Module

Gas filter correlation analyzer with paramagnetic oxygen sensor technology

The Thermo Scientific™ Model 48i Series Analyzers with Oxygen Sensor Module provide measurement of carbon monoxides (CO) with the ability to correct oxygen concentrations.

- Paramagnetic sensor technology
- Adjustable ranges
- Real-time correction of CO readings
- User selectable O₂ correction concentrations



The gas filter correlation technology, utilized in the standard Thermo Scientific Model 48i analyzer, combined with the paramagnetic oxygen sensor offers unsurpassed detection specificity and long term stability.

The paramagnetic oxygen sensor gives the source measurement of CO extended capabilities including the ability to read and report oxygen concentrations within the sample stream up to 100%.

Additionally, programming allows the user to correct the CO reading for the amount of oxygen in the sample.

Selectable O₂ concentrations can be used as the correction factor. (i.e. CO corrected to 6% O₂ or any other percentage.)

Developed on the renowned iSeries platform, the Model 48i CO Gas Analyzer with Oxygen Sensor Module offers limited maintenance and exceptional ease of use.

iSeries features also include:

- Rack mountability
- Ethernet port & connectivity options
- Flash memory for increased data storage
- Easily programmable short-cut keys
- Large interface screen



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Thermo Scientific Model 48i Carbon Monoxide Gas Analyzer with Oxygen Sensor

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|-------------------------|--|
| Measurement Range | User selectable to 100% O ₂ |
| Repeatability | +/- 0.1% O ₂ |
| Zero Drift (24 hour) | +/- 0.1% O ₂ |
| Response Time | < 2.5 seconds to 90% FS |
| Linearity | +/- 0.1% O ₂ |
| Operating Temperature | 41°F - 104°F (5°C - 40°C) |
| Temperature Coefficient | Within a range of 32°F to 149°F (0°C to +65°C) |
| Zero | < +/- 0.03% O ₂ / °C |
| Span | < +/- 0.05% O ₂ of reading / °C |
| Outputs | Selectable voltage, RS232/RS485, TCP/IP, 10 status relays and power fail indication 0-20 or 4-20 mA isolated current output |
| Inputs | 16 digital inputs, 8 0-10Vdc analog inputs |
| Physical Dimensions | 16.75" (42.5cm) W x 8.62" (21.9cm) H x 23" (58.4cm) D, 55lbs (25kg) |

Ordering Information

Thermo Scientific Model 48i CO Gas Analyzer with Oxygen Sensor

Choose from the following configurations/options to customize your own Model 48i

Model 48i

1. Voltage options:

A = 120 VAC 50/60 Hz (standard)

B = 220 VAC 50/60 Hz

J = 100 VAC 50/60 Hz

2. Internal zero / span and/or

Oxygen Sensor:

N = No zero / span valve assembly (standard)

A = No zero/ span valve w/

Zero Air Scrubber

Z = Internal zero / span valve assembly

C = Internal zero / span valve w/

Zero Air Scrubber

G = Oxygen Sensor with NO

Zero/Span

R = Oxygen Sensor with

Zero/Span

3. Filter wheel purge:

S = Standard plumbing (standard)

P = Filter wheel purge setup

4. Optional I/O:

A = None (standard)

C = 4-20mA current output -

6 channels, 0-10v analog input -

8 channel

5. Mounting Hardware:

A = Bench mounting (standard)

B = Ears & handles, EIA

C = Ears & handles, retrofit

Your Order Code: 48i - _ _ _ _ _

Model 48i-HL

1. Voltage options:

A = 120 VAC 50/60 Hz (standard)

B = 220 VAC 50/60 Hz

J = 100 VAC 50/60 Hz

2. Internal zero / span and/or

Oxygen Sensor:

N = No zero / span valve assembly (standard)

A = No zero/ span valve w/

Zero Air Scrubber

Z = Internal zero / span valve assembly

C = Internal zero / span valve w/

Zero Air Scrubber

T = Oxygen Sensor with NO Zero/Span

R = Oxygen Sensor with Zero/Span

3. Filter wheel purge:

S = Standard plumbing (standard)

P = Filter wheel purge setup

4. Optional I/O:

A = None (standard)

C = 4-20mA current output -

6 channels, 0-10v analog input -

8 channel

5. Mounting Hardware:

A = Bench mounting (standard)

B = Ears & handles, EIA

C = Ears & handles, retrofit

Your Order Code: 48i-HL - _ _ _ _ _

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific products.

For more information, visit our website at thermoscientific.com/air

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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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