

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

Gas filter correlation analyzer with paramagnetic sensor technology



Key Features

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

The industry proven Model 48i Carbon Monoxide (CO) analyzer is now also available with an O₂ sensor for the measurement and correction of oxygen concentrations. The gas filter correlation technology, utilized in the standard Model 48i, 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 with Oxygen 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

Product Specifications

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 lifecycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

Carbon Monoxide Gas Analyzer with Oxygen Sensor Module, Model 48i Series

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)
<i>Zero</i>	< +/- 0.03% O ₂ / °C
<i>Span</i>	< +/- 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

CO Gas Analyzer with Oxygen Sensor Module, Model 48i Series

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 _____

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

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