

Carbon Monoxide Analyzer, Model 48i

Gas filter correlation analyzer



Key Features

- Approved to meet the following standards: US EPA, UK Environmental Agency and the European Union
- Ethernet connectivity for efficient remote access
- Enhanced user interface with one button programming and large display screen
- Flash memory for increased data storage and user downloadable software

The Thermo Scientific Carbon Monoxide (CO) Analyzer, Model 48i utilizes gas filter correlation technology to measure the amount of carbon monoxide in the air.

The Model 48i is based on the principle that carbon monoxide (CO) absorbs infrared radiation at a wavelength of 4.6 microns. Because infrared absorption is a nonlinear measurement technique, it is necessary for the instrument electronics to transform the basic analyzer signal into a linear output.

The Model 48i uses an exact calibration curve to accurately linearize the instrument output over any range up to a concentration of 10,000ppm.

This state-of-the-art gas analyzer offers features such as an ethernet port as well as flash memory for increased data storage.

Ethernet connectivity provides efficient remote access, allowing the user to download measurement information directly from the instrument without having to be on-site.

You can easily program short-cut keys to allow you to jump directly to frequently accessed functions, menus or screens. The larger interface screen can display up to five lines of measurement information while primary screen remains visible.

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 air quality products.

Product Specifications

Preset Ranges	0-1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000 and 10000 ppm 0-1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000 and 10000 mg/m ³
Custom Ranges	0-1 to 10000 ppm 0-1 to 10000 mg/m ³
Zero Noise	0.02 ppm RMS (60 second averaging time)
Lower Detectable Limit	0.04 ppm
Zero Drift (24 hour)	< 0.1 ppm
Span Drift (24 hour)	+/-1% full scale
Response Time	60 seconds (30 second average time)
Precision	+/-0.1 ppm
Linearity	+/-1% full scale ≤ 1000 ppm +/-2.5% full scale > 1000 ppm
Sample Flow Rate	0.5-2 liters/min.
Operating Temperature	20 ^o C - 30 ^o C
Power Requirements	100 VAC, 115 VAC, 220-240 VAC +/-10% @ 275W
Size and Weight	16.75"(W) x 8.62"(H) x 23"(D), 49 lbs. (22.2 kg)
Outputs	Selectable Voltage, RS232/RS485, TCP/IP, 10 Status Relays and Power Fail Indication (standard) 0-20 or 4-20 mA Isolated Current Output (optional)
Inputs	16 Digital Inputs (standard), 8 0-10vdc Analog Inputs (optional)
Approvals and Certifications	US EPA Reference Method: RFCA-0981-054 MCERTS Certified: Sira MC070095/00 EN14626: TÜV 936/21203248/A Report

Ordering Information

Carbon Monoxide Analyzer, Model 48i

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

1. Voltage options:

A = 120 VAC 50/60 Hz
 B = 220 VAC 50/60 Hz
 J = 100 VAC 50/60 Hz

2. Internal zero /span:

N = No zero / span valve
 A = No zero / span valve w/ zero air scrubber
 Z = Internal zero / span valves
 C = Internal zero / span valves w/ zero air scrubber

3. Filter Wheel Purge:

S = Standard plumbing (standard)
 P = Filter wheel purge set-up

4. Optional I/O:

A = No optional I/O (standard)
 C = 0-20, 4-20mA current output - 6 channels, 0-10v analog input - 8 channels

5. Mounting hardware:

A = Bench mounting (standard)
 B = Ears & handles, EIA
 C = Ears & handles, retrofit

Other options:

- Teflon particulate filter
- Rack mounts
- Rear extender

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

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

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