

## Thermo Scientific Model 48i-TLE Trace Level Enhanced Carbon Monoxide Analyzer



### Key Features

- U.S. EPA Designated Method (RFCA-0981-054)
- 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
- Enhanced electronics design optimizes product commonality

The Thermo Scientific Model 48i-TLE Trace Level Enhanced Carbon Monoxide (CO) Analyzer utilizes gas filter correlation technology to measure the amount of carbon monoxide in the air from sub-ppb levels up to 100ppm. The Model 48i-TLE analyzer is a single chamber, single photomultiplier tube design that measures only CO.

Dual range and auto range are standard features in this instrument. Because the instrument is operated continuously in the CO mode, the response time is less than 10 seconds.

Temperature and pressure correction are standard features. User settable alarm levels for concentration a wide variety of internal diagnostics are available from an easy to follow menu.

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

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

Easily programmable short cut keys allow you to jump directly to frequently accessed functions, menus or screens. The larger interface screen can display measurement information and status, while viewing menu and operational screens.

## 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 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.

### Thermo Scientific Model 48i-TLE Trace Level Enhanced Carbon Monoxide Analyzer

<b>Preset Ranges</b>	0-1, 5, 10, 20, 50, 100, 200, 500, 1000 ppm 0-1, 2, 5, 10, 20, 50, 100, 200, 500, 1000 mg/m <sup>3</sup>
<b>Custom Ranges</b>	0-1 to 1000 ppm 0-1 to 1000 mg/m <sup>3</sup>
<b>Zero Noise</b>	0.02 ppm RMS (30 second averaging time)
<b>Lower Detectable Limit</b>	0.04 ppm (30 second averaging time)
<b>Zero Drift (24 hour)</b>	< 0.1 ppm
<b>Span Drift (24 hour)</b>	+/- 1% full scale
<b>Response Time</b>	60 seconds (30 second averaging time)
<b>Linearity</b>	+/- 1% full scale
<b>Sample Flow Rate</b>	0.5 liters/min
<b>Operational Temperature</b>	Performance specifications based on operation within 20°-30° C C range (per U.S. EPA guidelines). Instrument may be safely operated over the range of 5°-40°C
<b>Power Requirements</b>	100 VAC, 115 VAC, 220-240 VAC +/-10% @ 300W
<b>Size and Weight</b>	16.75"(W) x 8.62"(H) x 23"(D), 55 lbs. / 425 mm (W) x 219 mm (H) x 584 mm (D), 25 kg
<b>Outputs</b>	Selectable Voltage, RS232/RS485, TCP/IP, 10 Status Relays, and Power Fail Indication (standard). 0-20 or 4-20 mA Isolated Current Output ( <i>optional</i> )
<b>Inputs</b>	16 Digital Inputs (standard), 8 0-10 Vdc Analog Inputs ( <i>optional</i> )

### Ordering Information

#### Model 48i-TLE Trace Level Enhanced Carbon Monoxide Analyzer

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

##### 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:

C = Internal zero / span valves w/zero air scrubber

##### 3. Filter Wheel Purge:

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 TLE- \_ \_ \_ \_ \_

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

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