

Thermo Scientific Model 43i-TLE

Enhanced Trace Level SO₂ Pulsed Fluorescence Gas Analyzer

The Thermo Scientific™ Model 43i-TLE Enhanced Trace Level SO₂ Analyzer utilizes pulsed fluorescence technology to measure the amount of sulfur dioxide in the air down to 50 ppt.

Features

- Approved to meet U.S. EPA standards
- 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

Introduction

The Thermo Scientific Model 43i-TLE Enhanced Trace Level SO₂ Analyzer utilizes pulsed fluorescence technology to measure the amount of sulfur dioxide in the air down to 50 ppt.

The pulsing of the U.V. source lamp serves to increase the optical intensity whereby a greater U.V. energy throughput and lower detectable SO₂ concentration are realized.



Reflective bandpass filters, as compared to commonly used transmission filters, are less subject to photochemical degradation and more selective in wavelength isolation. This results in both increased detection specificity and long term stability.

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 onsite.



Thermo Scientific™ Model 43i-TLE
Enhanced Trace Level SO₂ Analyzer

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Specifications	
Preset ranges	0-10, 20, 50, 100, 200, 500 and 1000 ppb; 0-20, 50, 100, 200, 500, 1000 and 2000 mg/m ³
Custom ranges	0-10 to 1000 ppb; 0-20 to 2000 mg/m ³
Zero noise	0.025 ppb RMS (300 second averaging time)
Lower detectable limit	0.05 ppb (300 second averaging time)
Zero drift (24 hour)	< 0.2 ppb per day
Span drift (24 hour)	+/-1% of full scale
Response time	80 seconds (10 second average time)
Precision	1% of reading or 0.2 ppb (whichever is greater)
Linearity	+/-1% of full scale
Sample flow rate	0.5 liters/min.
Interferences	< lower detectable limit except for the following: NO: reads < 3 ppb when tested at 500 ppb. M-Xylene: reads <1 ppb when tested at 200ppb; H ₂ O: reads <2% of reading when tested at 2% H ₂ O absolute
Operating temperature	Performance specifications based on operation within 20°-30°C (per U.S. EPA Guidelines). Instrument may be safely operated over the range of 0°-45°C
Power requirements	100 VAC, 115 VAC, 220-240 VAC +/-10%@165W
Size and weight	16.75" (W) x 8.62" (H) x 23" (D), 48 lbs.; 425 mm (W) x 219 mm (H) x 584 mm (D), 21.8 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 Equivalent Method: EQSA-0486-060, UKCA

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.

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Ordering information

Model 43i-TLE Enhanced Trace Level SO₂ Analyzer

Choose from the following configurations/options to customize your own Model 43i-TLE Analyzer

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

N = No zero/span assembly (standard)

Z = Internal zero span assembly

P = Internal permeation span source w/zero/span assembly

3. Kicker type

S = Standard

H = Heated

4. Optional I/O

A = None (standard)

C = 0-20, 4-20mA current output—6 channels,
0-10v analog input—8 channels

5. Mounting hardware

A = Bench mounting and ears/handles, EIA

Other options:

Teflon particulate filter

Cable, DB37M to open end, 6' LG.

Rack mounts

Cable, DB37F to open end, 6' LG.

Rear extender

Cable, DB25M to open end, 6' LG.

Terminal Block Kit & Cable 37 pin

Your Order Code: Model 43i-TLE-

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Find out more at thermofisher.com/cleanair

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