Thermo Scientific Model 43*i*-TLE Enhanced Trace Level SO_2 Analyzer

Pulsed fluorescence gas analyzer

The Thermo Scientific™ Model 43*i*-TLE Enhanced Trace Level SO_2 Analyzer utilizes pulsed fluorescence technology to measure the amount of sulfur dioxide in the air down to 50 ppt.

- Approved to meet the following standards: U.S. 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

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The pulsing of the U.V. source lamp serves to increase the optical intensity whereby a greater U.V. energy throughput and lower detectable SO_2 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 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 up to five lines of measurement information while primary screen remains visible.

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Preset Ranges	0-10, 20, 50, 100, 200, 500 and 1000 ppb; 0-20, 50, 100, 200, 500, 1000 and 2000 μg/m³
Custom Ranges	0-10 to 1000 ppb; 0-20 to 2000 μg/m³
Zero Noise	0.025 ppb RMS (300 second averaging time)
Lower Detectable Limit	0.05 ppb (300 second averaging time)
Zero Drift	< 0.2 ppb per day
Span Drift	+/-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 (EPA Levels)	< lower detectable limit except for the following: NO: Reads < 3 ppb when tested at 500 ppb. M-Xylene:
Reads	< 1 ppb when tested at 200 ppb. H2O: Reads < 2% of reading when tested at 2% H_2O 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 0-10 Vdc analog inputs (optional)
Approvals and Certifications	U.S. EPA Equivalent Method: EQSA-0486-060 MCERTS Certified: Sira MC0700941-00 EN14122 Standard: TÜV 936/21203248/D Report

Ordering Information

Model 43*i*-TLE Enhanced Trace Level SO_2 Analyzer
Choose from the following configurations/options to customize your own Model 43*i*-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 with zero/span assembly

3. Kicker type:
S = Standard
H = Heated

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 filer
- 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
- Cable, RS232 Null Modem
- Terminal Block Kit & Cable 25 pin

Your Order Code: Model 43i-TLE - _ _ _ _ _

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/ambient

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

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