Thermo Scientific Model 49*i* Ozone Analyzer

UV photometric gas analyzer

The Thermo Scientific™ Model 49*i* Ozone Analyzer utilizes UV Photometric technology to measure the amount of ozone in the air from ppb levels up to 200ppm.

- 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

- Enhanced electronics design optimizes product commonality

The Thermo Scientific Model 49*i* analyzer is a dual cell photometer, the concept adopted by the NIST for the national ozone standard.

Dual range and auto range are standard features of the Model 49*i* analyzer. Because the instrument has both sample and reference flowing at the same time, a response time of 20 seconds can be achieved.

Temperature and pressure correction are standard offerings. User settable alarm levels for concentration and for 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 and flash memory for increased data storage and field upgradability.

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 large interface screen can display measurement information and status, while viewing menu and operational screens.

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Preset Ranges	0-0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100 and 200 ppm 0-0.1, 0.2, 1, 2, 5, 10, 20, 50, 100, 200 and 400 mg/m^3
Custom Ranges	0-0.05 to 200 ppm 0-0.1 to 400 mg/m^3
Zero Noise	0.25 ppb RMS (60 second averaging time)
Lower Detectable Limit	0.50 ppb
Zero Drift *(24 hour)*	< 1.0 ppb
Span Drift	<1% full scale per month
Response Time	20 seconds (10 second lag time)
Precision	1.0 ppb
Linearity	+/-1% full scale
Sample Flow Rate	1-3 liters/min.
Operating Temperature	Performance specifications based on operation within 20°-30° C range (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% @ 150W
Size and Weight	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
Outputs	Selectable Voltage, RS232/RS485, TCP/IP, 10 Status Relays, and Power Fail Indication (standard). 0-20 or 4-20 mA Isolated Current Outout (optional)
Inputs	16 Digital Inputs (standard), 8 0-10 vdc Analog Inputs (optional)
Approvals and Certifications	US EPA Equivalent Method: EQOA-0880-047 MCerts Certified: MC070096/00 EN14626: 936/21203248/13 Report NF Certificate: 05/01

Ordering Information

Model 49*i* Ozone Analyzer
Choose from the following configurations/options to customize your own Model 49*i* analyzer

1. Voltage options:
A = 115 VAC 50/60 Hz (standard)
B = 220/240 VAC 50/60 Hz
J = 100 VAC 50/60 Hz

2. Internal zero / span:
1 = No sample/cal valve (standard)
2 = Internal sample/cal valve assembly
3 = Internal Ozonator setup
(including sample/cal valve)

3. Zero Air Source
N = No Zero Air Source (standard)
Z = Zero Air Source (External Pump)

4. Optional I/O:
A = No optional I/O (standard)
C = I/O expansion board
(4-20mA outputs - 6 channels, 0-10v inputs - 8 channels

5. Mounting hardware:
A = Bench mounting and Ears/Handles, EIA

Other options:

• Teflon particulate filer
• Rack mounts
• Rear extender
• Terminal Block Kit & Cable 37 pin
• Terminal Block Kit & Cable 25 pin
• Cable, DB37M to open end, 6' LG.
• Cable, DB37F to open end, 6' LG.
• Cable, DB25M to open end, 6' LG.
• Cable, RS232 Null Modem

Your Order Code: Model 49i - _ _ _ _ _

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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