Air quality monitoring

Model 49*i* Ozone Analyzer

Thermo Scientific Model 49i UV Photometric Ozone Analyzer

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

Introduction

The Model 49i Analyzer is a dual cell photometer, the concept adopted by the National Institute of Standards and Technology (NIST) for the national ozone standard.

Dual range and auto range are standard features of the Model 49i 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 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.

Features

- Approved to meet the following standards: U.S. EPA, UK Environmental Agency and the EU Environtmental Agency
- 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

Thermo Scientific Model 49i Ozone Analyzer

Specifications	
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 range	0 to 200 ppm 0-0.1 to 400 mg/m^3
Zero noise	0.25 ppb RMS (60 second averaging time)
Low detectable limit	0.50 ppb
Span drift	<1% full scale per month
Zero drift	<1 ppb/24 hour; <2 ppb /7 day
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% @ 150 W
Size and weight	16.75” (W) • 8.62” (H) • 23” (D), 48 lbs. 425 mm (W) • 219 mm (H) • 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 output (optional)
Inputs	16 digital inputs (standard), 8 0–10 Vdc analog inputs (optional) US
Approvals and certifications	EPA equivalent method: EQOA-0880-047 MCerts certified: MC070096/00 EN14625: 936/21203248/B1 Report NF certificate: 05/01 UKCA
Country of origin	India or China

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 Fisher Scientific products. For more information on our comprehensive service solutions, visit thermofisher.com/EPMservice.

Ordering information

Model 49i Ozone Analyzer
Choose the following configurations options to customize your own Model 49i Analyzer
Voltage options
A = 115 VAC 60 Hz (standard)
B = 220/240 VAC 50 Hz
D = 220 VAC 50/60 Hz with China power cord
J = 100 VAC 50/60 Hz
E = 115 VAC 50/60 Hz (Hi power)* * Available only as 49i - E3C Note: This model code does not include CE or TUV certifications
Internal zero/span
1 = No sample/cal valve (standard)
2 = Internal sample/cal valve assembly
3 = Internal ozonator setup (including sample/cal valve)
Zero air source
N = No zero air source (standard)
Z = Zero air source (external pump)
C = Zero air source with remote act external pump 115V
Optional I/O
A = None (standard)
C = 0-20, 4-20 mA current output, 6 channels, 0-10 V analog input, 8 channel
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 Ozone Analyzer

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