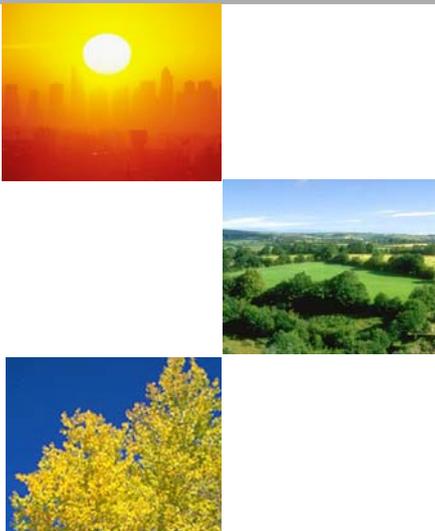


## Model 49i Ozone Analyzer

UV Photometric gas analyzer with enhanced communication capabilities for ambient air monitoring.



### A change is in the air

The industry's new best-of-breed. Our customers told us exactly what they're looking for in a gas monitoring solution: reliability, simplicity, ease of use. The new *iSeries* platform delivers on all counts - and then goes a step farther.

One of the criteria pollutant analyzers in Thermo's new *iSeries* product line is the Model 49i O<sub>3</sub> analyzer.

Using UV Photometric technology, the Model 49i measures the amount of ozone in the air from ppb levels up to 200ppm. The Model 49i is a dual cell photometer, the concept adopted by the NIST for the national ozone standard.

Dual range and auto range are standard features in this instrument. 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 features. User settable alarm levels for concentration and for a wide variety of internal diagnostics are available from an easy to follow menu structure.

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 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 soft-keys to 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.

### Key Features

- ◆ 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
- ◆ Improved layout for easier accessibility to components

## Comprehensive Service Solutions

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. Thermo Electron offers comprehensive, flexible support solutions for all phases of the product lifecycle. Through predictable, fixed-cost pricing, Thermo services help protect the return on investment and total cost of ownership of your Thermo Electron air quality products.

## Product Specifications

<b>Preset Ranges</b>	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 <sup>3</sup>
<b>Custom Ranges</b>	0-0.05 to 200 ppm 0-0.1 to 400 mg/m <sup>3</sup>
<b>Zero Noise</b>	0.25 ppb RMS (60 second averaging time)
<b>Lower Detectable Limit</b>	0.50 ppb
<b>Zero Drift (24 hour)</b>	< 1.0 ppb
<b>Span Drift</b>	<1% full scale per month
<b>Response Time</b>	20 seconds (10 second lag time)
<b>Precision</b>	1.0 ppb
<b>Linearity</b>	+/-1% full scale
<b>Sample Flow Rate</b>	1-3 liters/min.
<b>Operating Temperature</b>	20°C - 30°C
<b>Power Requirements</b>	100 vac, 115 vac, 220-240 vac +/-10% @ 150W
<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 Outout (optional)
<b>Inputs</b>	16 Digital Inputs (standard), 8 0-10vdc Analog Inputs (optional)

## Ordering Information

### Model 49i O<sub>3</sub> Analyzer

Choose from the following configurations/options to customize your own Model 49i

#### Voltage options:

A = 115 Vac 50/60 Hz (standard)  
B = 220/240 Vac 50/60 Hz  
J = 100 Vac 50/60 Hz

#### 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)

#### Optional I/O:

A = None (standard)  
C = I/O expansion board  
(4-20mA outputs - 6 channels, 0-10v inputs - 8 channels)

#### Mounting Hardware:

A = Bench mounting (standard)  
B = Ears & handles, EIA  
C = Ears & handles, Retrofit

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

#### Other options:

- Teflon particulate filter
- 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

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