

Thermo Scientific Model 49i-PS

UV Photometric Primary Standard for the calibration of ozone analyzers and transfer standards

The Thermo Scientific™ Model 49i-PS Ozone Primary Standard utilizes UV Photometric technology to produce ozone at a rate of up to 1000 ppb.

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

Introduction

The Thermo Scientific Model 49i-PS Analyzer is a dual cell photometer, the concept adopted by the NIST for the national ozone standard. The Model 49i-PS Analyzer can operate with ozonator flow rates of up to 6 liters a minute. Because the instrument has both sample and reference flowing simultaneously, 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 a 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 onsite.

You can easily program short-cut 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.



Thermo Scientific™ Model 49i-PS
Ozone Primary Standard

Thermo Scientific Model 49i-PS Ozone Primary Standard

Specifications	
Preset ranges	0-0.05, 0.1, 0.2, 0.5, 1, 2, 5, and 10 ppm, 0-0.2, 0.5, 1, 2, 5, 10, 20, and 25 mg/m ³
Custom ranges	0-0.05 to 5 ppm 0-0.1 to 10µg/m ³
Zero noise	0.25 ppb RMS (60 second averaging time)
Lower detectable limit	0.5 ppb
Zero drift	<1.0 ppb/24 hour
Span drift	less than 1% per month (including drift of transducers)
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	32°F to 113°F (0°C - 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), 48 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 Output (optional)
Inputs	16 digital inputs (standard), 8 0-10Vdc analog inputs (optional)
Ozonator Output	.025 - 1.000 ppm @ 3-4 LPM
Ozonator Response	1 minute to 98% or 5 ppb of final value, whichever is greater
Stability	+/- 4 ppb or +/- 1% or reading, whichever is greater

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 on our comprehensive service solutions visit thermofisher.com/EPMSservice

Ordering information

Model 49i-PS Ozone Primary Standard

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

1. Voltage options

A = 120 VAC 50/60 Hz (standard)

B = 220/240 VAC 50/60 Hz

J = 100 VAC 50/60 Hz

2. Zero Air Source

N = No Zero Air Source (standard)

Z = Zero Air Source (External Pump)

3. Optional I/O

A = None (standard)

C = I/O expansion board
(4-20mA outputs-6 channels, 0-10v
inputs-8 channels)

4. 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

Terminal Block Kit & Cable 25 pin

Cable, RS232 Null Modem

Your Order Code: Model 49i-PS -

--	--	--	--

USA

27 Forge Parkway
Franklin, MA 02038
Ph: (866) 282-0430
Fax: (508) 520-2800
orders.aqi@thermofisher.com

India

Industrial Unit No.101-130,
Plot No.C-56/1, TTC Industrial
area, MIDC-Turbhe,
New Mumbai 400 703, India
Ph: +91 82 9199 0337
INinfo@thermofisher.com

China

8/F Bldg C of Global Trade Ctr,
No.36, North 3rd Ring Road,
Dong Cheng District
Beijing, China 100013
Ph: +86 10 84193588
info.eid.china@thermofisher.com

Europe

Ion Path, Road Three,
Winsford, Cheshire CW73GA UK
Ph: +44 1606 548700
Fax: +44 1606 548711
sales.epm.uk@thermofisher.com

Find out more at thermofisher.com/cleanair

ThermoFisher
SCIENTIFIC