thermoscientific

PRODUCT SPECIFICATIONS

Thermo Scientific 49iQ

Ozone Analyzer—UV Photometric

The Thermo Scientific™ 49iQ Ozone(O$_3$) Analyzer utilizes UV Photometric technology to measure the amount of ozone in the air from ppb levels up to 200ppm.

The Thermo Scientific 49iQ Analyzer is a dual cell photometer, the concept adopted by NIST for the national ozone standard. Because the instrument has both sample and reference flowing at the same time, a response time of 20 seconds can be achieved. Dual range, auto range, temperature correction and pressure correction are standard features.

Non-Stop Intelligence

- Predictive Diagnostics
- Proactive Communication
- Personal Device Connectivity

The Thermo Scientific iQ Series Gas Analyzer provides a smart environmental monitoring solution designed for reliability, easy operation and proactive maintenance. Get more control over your instrument's performance, costs, workflow and data availability.

The iQ companion app for the iQ Series Gas Analyzer delivers the ultimate in ease of use and smart engineering. The iQ app allows for remote monitoring of iQ gas analyzers, simplified ways of contacting us and instant access to product resources. Download the iQ app at **thermofisher.com/iQapp**

ThermoFisher
SCIENTIFIC

thermoscientific

Thermo Scientific 49iQ Ozone Analyzer

Specifications	
Range	0-200 ppm 0-400 mg/m³
Zero noise	0.25 ppb RMS (60 second averaging time)
Detection limit	0.50 ppb (60 second averaging time)
Zero drift	<1.0 ppb (24 hour) <2.0 ppb (7 day)
Span drift	<1% full scale (1 month)
Response time	20 seconds (10 second averaging time)
Linearity	±1% full scale
Flow rate	1-3 liters/min.
Operating temperature	0°-45°C.
Power requirements	100-240 VAC 50/60 Hz 275 Watts
Size and weight	16.75" (W) × 8.72" (H) × 24" (D), 31.7 lbs std; 35.6 lbs w/ozonator 425.45 mm (W) × 221.48 mm (H) × 609 mm (D), 14.4 kg std; 16.1 kg w/ozonator
Analog I/O	4 Isolated voltage Inputs 0–10 V 6 Isolated analog voltages outputs, with 4 selectable ranges 6 Isolated analog current outputs, with 2 selectable ranges
Digital I/O	16 Digital inputs (TTL) 8 Solenoid driver outputs 10 Digital reed relay contact outputs
Serial ports	1 RS-232/485 port; 1 RS-485 external accessory port
Other ports	3 Full speed USB ports (one in front, two in rear) 1 Gigabit ethernet port
Communications	MODBUS, streaming
Approvals and Certifications	CE, TUV-SUD Safety, US EPA: EQOA-0880-047

Ordering information

49iQ Ozone Analyzer

Choose from the following configurations/options to customize your own 49iQ Analyzer

1. Power Cord

A = 100-120 VAC 50/60 Hz (NA)

B = 220 VAC 50/60 Hz (EU)

C = 220 VAC 50/60 Hz (CHN)

2. Communications

N = No I/O

A = Serial RS232/RS485

B = Analog and Digital

C = Serial, Analog and Digital

3. Internal Sample/Cal

N = No sample/Cal Valve

A = Internal Sample/Cal Valve

B = Internal Ozonator, Manifold, Sample/Cal Valve

C = Internal Ozonator, Sample/Cal & Zero/Ozone

4. Zero air source:

NN = No Zero Air Source

NA = Zero air source

Your Order Code: 49iQ –

☐ ☐ ☐ ☐ ☐

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/EMservice

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

India
C/327, TTC Industrial Area
MIDC Pawane
New Mumbai 400 705, India
Ph: +91 22 4157 8800
india@thermofisher.com

China
+Units 702-715, 7th Floor
Tower West, Yonghe
Beijing, China 100007
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/49iQ**
thermofisher.com/iQSeries

ThermoFisher
SCIENTIFIC