

Air quality monitoring

## Thermo Scientific 49iQ Ozone Analyzer—UV Photometric

The Thermo Scientific™ 49iQ Ozone (O<sub>3</sub>) Analyzer utilizes UV Photometric technology to measure the amount of ozone in the air from ppb levels up to 200 ppm.

### Introduction

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.

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.

### Non-Stop Intelligence

- Predictive diagnostics
- Proactive communication
- Personal device connectivity



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](https://thermofisher.com/iQapp)



## Thermo Scientific 49iQ Ozone Analyzer

Specifications	
Range	0–200 ppm 0–400 mg/m <sup>3</sup>
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)
Precision	±1.0 ppb
Linearity	±1% full scale
Flow rate	1.5 LPM
Operating temperature	0 °C - 45 °C
Power requirements	100–240 VAC 50/60 200 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
Communication	MODBUS, streaming
Approvals and Certifications	CE, TUV-SUD safety, US EPA: EQOA-0880-047, UKCA

To maintain optimal product performance, you need immediate access to experts worldwide and priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all product life cycle phases. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific products.

Your order code:  
**49iQ Ozone Analyzer**



Learn more at [thermofisher.com/49iQ](https://thermofisher.com/49iQ) and  
[thermofisher.com/iqseries](https://thermofisher.com/iqseries)

For research use only. Not for use in diagnostic procedures. For current certifications, visit [thermofisher.com/certifications](https://thermofisher.com/certifications)  
 © 2023 Thermo Fisher Scientific Inc. All rights reserved. Teflon is a trademark of Chemours Company. All other trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. 12/23

## Ordering information

49iQ Ozone Analyzer
Choose from the following configurations options to customize your 49iQ
<b>Power cord</b>
A = 100–120 VAC 50/60 Hz (NA)
B = 220 VAC 50/60 Hz (CHN)
C = 220 VAC 50/60 Hz (EU)
<b>Communications</b>
N = No I/O
A = Serial RS232/RS485
B = Analog and digital
C = Serial, analog and digital
<b>Internal sample/cal</b>
N = No sample/cal valve
A = Internal sample/cal valve
B = Internal ozonator, manifold, sample/cal valve
C = Internal ozonator, sample/cal & zero/ozone
<b>Zero air source</b>
N = No zero air source
A = Zero air source