

Air quality monitoring

Thermo Scientific 49iQ Ozone Analyzer—UV Photometric

The Thermo Scientific™ 49iQ Ozone (O₃) Analyzer utilizes UV photometric technology to measure the amount of ozone in the air from ppb levels up to 200 ppm.



49iQ Ozone Analyzer

Experience the benefits

- Predictive diagnostics
- Proactive communication
- Personal device connectivity
- User friendly touchscreen display
- Trusted reliability of a Thermo Scientific™ gas analyzer

Introduction

The 49iQ Ozone Analyzer is a dual-cell photometer, the concept adopted by NIST for the national ozone standard. A response time of 20 seconds can be achieved because the instrument analyzes the flows of both the sample and reference simultaneously. Dual range, auto range, temperature correction, and pressure correction are standard features.

Non-stop intelligence

Thermo Scientific™ iQ Series Gas Analyzers provide 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.

49iQ Ozone Analyzer

Specifications	
Range	0–200 ppm 0–400 mg/m ³
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	0–45°C
Power requirements	100–240 VAC 50/60 200 watts
Size and weight	16.75 in. (W) x 8.72 in. (H) x 24 in. (D), 31.7 lbs std; 35.6 lbs w/ozonator 425.45 mm (W) x 221.48 mm (H) x 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, UL STD 61010-1, CSA STD C22.2 NO. 61010-1, 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.

Ordering information

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

Your order code:
 49iQ Ozone Analyzer



Learn more at thermofisher.com/49iq
 and thermofisher.com/iqseries

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