

Thermo Scientific 43iQHL

High Level Sulfur Dioxide Analyzer



The Thermo Scientific™ 43iQ High Level SO₂ Analyzer utilizes pulsed fluorescence technology to measure the amount of sulfur dioxide in the air up to 1000ppm in standard range and up to 10000ppm in extended range.

The 43iQHL operates on the principle that the pulsing of the U.V. source lamp serves to increase the optical intensity whereby a greater U.V. energy throughput and lower detectable SO₂ concentration are realized.

Reflective bandpass filters, as compared to commonly used transmission filters, are less subject to photochemical degradation and more selective in wavelength isolation. A wide variety of internal diagnostics, with user settable alarm levels, are available from an easy to follow touch screen menu. This results in both increased detection specificity and long term stability.



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

Thermo Scientific 43iQ High Level SO₂ Analyzer

Specifications	
Range	0-1000 ppm; 0-3000 mg/m ³
Extended Range	0-10000 ppm; 0-30000 mg/m ³
Zero noise	1 ppm RMS (10 second averaging time) 0.5 ppm RMS (60 second averaging time) 0.25 ppm RMS (300 second averaging time)
Detection limit	2 ppm (10 second averaging time) 1 ppm (60 second averaging time) 0.5 ppm (300 second averaging time)
Zero drift (24 hour)	<1 ppm
Span drift (24 hour)	+/- 1% full scale
Response time	80 sec (10 second averaging time) 110 sec (60 second averaging time) 320 sec (300 second averaging time)
Linearity	+/- 1% full scale
Flow rate	0.7 lpm (standard)
Interferences (EPA levels)	Less than lower detectable limit except for the following: NO: < 3 ppb, tested at 500 ppb, M-Xylene: tested at 200 ppb, H ₂ O: tested at 2% of reading
Operating temperature	0°-45° C
Power requirements	100-240 VAC 50/60 Hz 275W
Size and weight	24 in (D) x 16.75 in (W) x 8.72 in (H), 37.1lbs 609 mm (D) 425.45 mm (W) x 221.48 mm (H), 16.8kg
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 protocols	MODBUS, streaming
Approvals and certifications	CE, TUV-SUD Safety, UKCA

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

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Find out more at thermofisher.com/43iQHL
thermofisher.com/iQSeries

Ordering information

43iQ High Level SO₂ Analyzer

Choose from the following configurations/options to customize your own 43iQHL 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. Case Configuration

N = No zero/span valves, no kicker

A = No zero/span valves, heated kicker

B = Internal zero/span valves, no kicker

C = Internal zero/span valves, heated kicker

Your Order Code: 43iQHL

