

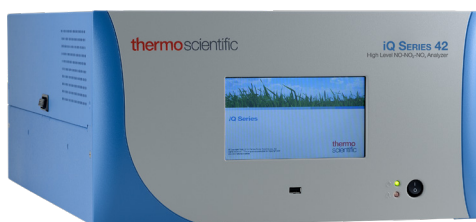
Thermo Scientific 42iQHL

High Level NO-NO₂-NO_x Analyzer



The Thermo Scientific™ 42iQ High Level NO-NO₂-NO_x Analyzer utilizes chemiluminescence technology to measure the amount of nitrogen oxides in the air from 10 ppm up to 5000 ppm.

The 42iQHL analyzer is a single chamber, single photo multiplier tube design that cycles between the NO and NO_x modes. This instrument has independent outputs for NO, NO₂ and NO_x and each can be calibrated separately. Dual range and auto range are standard features as well. If required, the instrument can be operated continuously in either the NO or NO_x modes allowing for response times of less than 5 seconds. Temperature and pressure correction are standard offerings of the 42iQHL analyzer.



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

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Thermo Scientific 42iQ High Level NO-NO₂-NO_x Analyzer

Specifications	
Ranges	0-5000 ppm; 0-7500 mg/m ³
Zero noise	0.025 ppm RMS (60 second averaging time)
Detection limit	0.050 ppm (60 second averaging time)
Zero drift (24 hour)	0.05 ppm
Span drift (24 hour)	+/-1% full scale
Response time (in manual mode)	2.5 seconds NO 5.0 seconds NO _x
Vacuum	28.5" Hg
Linearity	+/-1% full scale
Sample flow rate	25 cc/min.
Bypass flow rate (option)	50-1100 cc/min.
Operating temperature	0°-40° 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), 60lbs 609 mm (D) 425.45 mm (W) x 221.48 mm (H), 27.2kg
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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Ordering information

42iQHL NO-NO₂-NO_x Analyzer

Choose from the following configurations/options to customize your own 42iQHL 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. Pump Voltage

A = 100-120 Vac 60 Hz (standard)

B = 220 Vac 50Hz

C = 220 Vac 60Hz

4. Converter Material	4. Converter Material
A = Molybdenum	B = Stainless Steel
5. Sample Conditioning	5. Sample Conditioning
N = None	N = None
B = Bypass Flow	A = Ammonia (NH ₃) Scrubber
	B = Bypass Flow
	C = Bypass Flow with Ammonia (NH ₃) Scrubber

6. Internal Zero/Span

N = No Zero/Span Assembly

A = Internal Zero/Span Assembly

B = No Zero/Span Assembly w/ O₂ Sensor

C = Internal Zero/Span Assembly w/ O₂ Sensor

Your Order Code: 42iQHL

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Find out more at thermofisher.com/42iQHL
thermofisher.com/iQSeries

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