

# Thermo Scientific 42iQTL

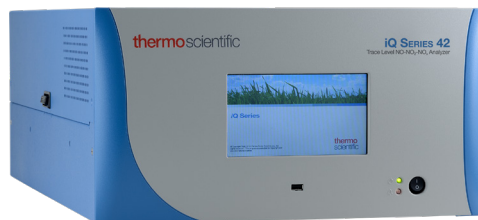
## Trace Level NO-NO<sub>2</sub>-NO<sub>x</sub> Analyzer



The Thermo Scientific™ 42iQ Trace Level NO-NO<sub>2</sub>-NO<sub>x</sub> Analyzer utilizes chemiluminescence technology to measure the amount of nitrogen oxides in the air from sub-ppb levels up to 1000ppb.

The 42iQTL is a single chamber, single photomultiplier tube design that cycles between the NO, NO<sub>x</sub>, and Zero modes. The addition of the Zero mode provides for excellent long term stability and extremely low minimum detectable limits.

The instrument has independent outputs for NO, NO<sub>2</sub> and NO<sub>x</sub> and each can be calibrated independently. Temperature 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](https://thermofisher.com/iQapp)

## Thermo Scientific 42iQ Trace Level NO-NO<sub>2</sub>-NO<sub>x</sub> Analyzer

Specifications	
Ranges	0-1000 ppb; 0-1500 ug/m <sup>3</sup>
Zero noise	25 ppt RMS (120 second averaging time)
Detection limit	50 ppt (120 second averaging time)
Zero drift	negligible
Span drift	+/-1% full scale
Response time (in automatic mode)	60 seconds (10 second averaging time) 90 seconds (60 second averaging time) 300 seconds (300 second averaging time)
Linearity	+/-1% full scale
Flow rate	1 lpm
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), 40lbs 609 mm (D) 425.45 mm (W) x 221.48 mm (H), 18.1kg
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

## Ordering information

### 42iQ Trace Level NO-NO<sub>2</sub>-NO<sub>x</sub> Analyzer

Choose from the following configurations/options to customize your own 42iQTL 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 = 110-120 Vac 60 Hz (standard)

B = 220 Vac 50Hz

C = 220 Vac 60Hz

#### 4. Internal Zero/Span

N = No zero/span assembly

A = Internal zero/span assembly

#### 5. Sample Conditioning

N = None

A = Ammonia scrubber

#### Your Order Code: 42iQTL

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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](http://thermofisher.com/EPMSservice)

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