

### Thermo Scientific 42iQHL

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

The Thermo Scientific<sup>™</sup> 42iQ High 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 10 ppm up to 5000 ppm.



42iQHL High Level NO-NO<sub>2</sub>-NO<sub>x</sub> Analyzer

#### Experience the benefits

- Predictive diagnostics
- Proactive communication
- User-friendly touchscreen display
- Trusted reliability of a Thermo Scientific<sup>™</sup> gas analyzer

#### Introduction

The 42iQHL analyzer is a single chamber, single photo multiplier tube design that cycles between the NO and  $\mathrm{NO_x}$  modes. This instrument has independent outputs for NO,  $\mathrm{NO_2}$  and  $\mathrm{NO_x}$  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  $\mathrm{NO_x}$  modes allowing for response times of less than 5 seconds. Temperature and pressure correction are standard offerings of the 42iQHL analyzer.

#### Non-stop intelligence

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.

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#### Thermo Scientific 42iQ High Level NO-NO<sub>2</sub>-NO<sub>4</sub> Analyzer

Specifications	
Ranges	0-5000 ppm; 0-7500 mg/m <sup>3</sup>
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 <sub>x</sub>
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, UL STD 61010-1, CSA STD C22.2 NO. 61010-1, US EPA: EQOA-0880-047, UKCA

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# Your Moly order code: 42iQHLYour Your SS order code: 42iQHL-

or replacement.



#### Ordering information

#### 42iQHL NO-NO<sub>2</sub>-NO<sub>y</sub> 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/OA = 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. SS 4. Moly converter material converter material A = Molybdenum B = Stainless steel 5. Moly sample 5. SS sample conditioning conditioning N = NoneN = NoneB = Bypass flow A = Ammonia (NH3) scrubber B = Bypass flow C = Bypass flow with ammonia (NH3) scrubber 6. Internal zero/span N = No zero/span assembly

# 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

