

High Level NO-NO₂-NO_x Analyzer, Model 42i-HL

Chemiluminescent gas analyzer



The Thermo Scientific NO, NO₂, NO_x Analyzer, Model 42i-HL utilizes chemiluminescence technology to measure the amount of nitrogen oxides in the air from 10 ppm levels up to 5000 ppm. The Model 42i-HL is a single Chamber, single photomultiplier tube design that cycles between the NO and NO_x modes.

The 42i-HL 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 features. User settable alarm levels

for concentration and for a wide variety of internal diagnostics are available from an easy to follow menu structure.

This state-of-the-art gas analyzer offers features such as an Ethernet port as well as flash memory for increased data storage.

Ethernet connectivity provides efficient remote access, allowing the user to download measurement information directly from the instrument without having to be on-site.

You can easily program short-cut keys to allow you to jump directly to frequently accessed functions, menus or screens. The larger interface screen can display up to five lines of measurement information.

Key Features

- Ethernet connectivity for efficient remote access
- Enhanced user interface with one button programming and large display screen
- Flash memory for increased data storage and user downloadable software
- Enhanced electronics design optimizes product commonality
- Improved layout for easier accessibility to components

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 air quality products.

Product Specifications

| | |
|--------------------------------|--|
| Preset Ranges | 0-10, 20, 50, 100, 200, 500, 1000, 2000, 5000 ppm |
| Noise | 25 ppb |
| Lower Detectable Limit | 50 ppb |
| Zero Drift (24 hour) | 50 ppb |
| Span Drift (24 hour) | +/-1% full scale |
| Rise Fall Times (0-90%) | 2.5 seconds NO Mode; 5.0 seconds NO _x Mode |
| Linearity | +/-1% full scale |
| Sample Flow Rate | 25 cc/min. with Bypass 2 SCFH |
| Vacuum | 28.5" Hg |
| Power Requirements | 100 vac, 115 vac, 220-240 vac +/-10% @ 300W |
| Size and Weight | 16.75"(W) x 8.62"(H) x 23"(D), 55 lbs. (25 kg) |
| Outputs | Selectable Voltage, RS232/RS485, TCP/IP, 10 Status Relays, and Power Fail Indication (standard). 0-20 or 4-20 mA Isolated Current Outout (optional) |
| Inputs | 16 Digital Inputs (standard), 8 0-10vdc Analog Inputs (optional) |

Ordering Information

NO-NO₂-NO_x Analyzer, Model 42i-HL

Choose from the following configurations/options to customize your own Model 42i-HL

1. Voltage options:

A = 120 VAC 50/60 Hz (standard)
 B = 220 VAC 50/60 Hz
 J = 100 VAC 50/60 Hz

2. Internal zero / span: and/or Oxygen Sensor:

N = No zero / span assembly (standard)
 Z = Internal zero span assembly
 S = Oxygen Sensor with NO Zero/Span
 R = Oxygen Sensor with Zero/Span

3. Converter options:

S = Stainless steel (standard)

4. Sample handling:

S = Standard plumbing (standard)
 A = Ammonia Scrubber
 B = Bypass flow
 C = Ammonia Scrubber with Bypass Flow

5. Ozone handling:

D = Drierite scrubber (standard)
 P = Permeation dryer

6. Optional I/O:

A = None (standard)
 C = 0-20, 4-20mA current output - 6 channel,
 0-10v analog input - 8 channel

7. Mounting Hardware:

A = Bench mounting (standard)
 B = Ears & handles, EIA
 C = Ears & handles, retrofit

Other options:

- Teflon particulate filter
- Ozone particulate filter
- Rack mounts
- Rear extender

Your Order Code: 42i-HL _ _ _ _ _

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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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