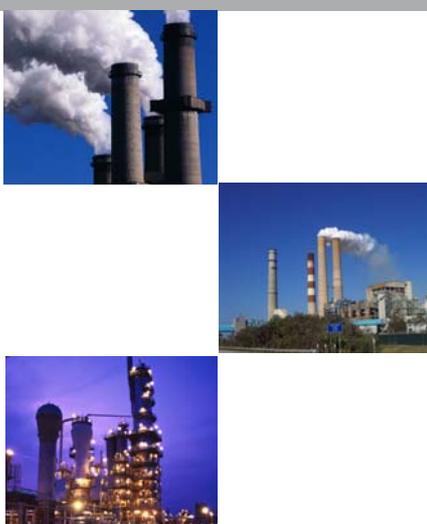


Model 42i HL High Level NO-NO₂-NO_x Analyzer

Chemiluminescent gas analyzer with enhanced communication capabilities for source emissions monitoring



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

A change is in the air

The industry's new best-of-breed. Our customers told us exactly what they're looking for in a gas monitoring solution: reliability, simplicity, ease of use. The new *i*Series platform delivers on all counts - and then goes a step farther. A core product in Thermo's new *i*Series product line is the Model 42i HL High Level NO-NO₂-NO_x analyzer.

Using chemiluminescence technology, the Model 42i HL measures the amount of nitrogen oxides in the air from sub-ppm levels up to 100ppm. 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 Nox 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 soft-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.

Comprehensive Service Solutions

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. Thermo Electron offers comprehensive, flexible support solutions for all phases of the product lifecycle. Through predictable, fixed-cost pricing, Thermo services help protect the return on investment and total cost of ownership of your Thermo Electron 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

Model 42i HL NO-NO₂-NO_x Analyzer

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

Voltage options:

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

Internal zero / span:

N = No zero / span assembly (standard)
Z = Internal zero span assembly

Converter options:

M = Molybdenum
S = Stainless steel (standard)

Sample handling:

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

Ozone handling:

D = Drierite scrubber (standard)
P = Permeation dryer

Optional I/O:

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

Mounting Hardware:

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

Your Order Code: 42i - HL _____

Other options:

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



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