

Thermo Scientific Model 46i-HL High Level Nitrous Oxide Analyzer

Utilizes gas filter correlation technology to measure high concentrations of Nitrous Oxide.

The Thermo Scientific™ Model 46i-HL High Level Nitrous Oxide Analyzer utilizes gas filter correlation technology to measure high concentrations of Nitrous Oxide (N₂O).

- Gas filter correlation technology
- Linearity through all ranges
- Dual and auto range modes
- Automatic pressure and temperature correction
- Long term zero and span stability



The Thermo Scientific Model 46i-HL analyzer uses an exact calibration curve to accurately linearize the instrument output over any range up to a concentration of 2,000 ppm. Available in both dual and auto range modes.

In addition, the Model 46i-HL analyzer features automatic pressure and temperature correction that provides an increased resistance to shock and vibration while delivering enhanced specificity and sensitivity.

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.

Easily programmable short-cut keys 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 while the primary screen remains visible.



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Preset Ranges	0 - 10, 20, 50, 100, 200, 500, 1000 and 2000 ppm 0 - 20, 50, 100, 200, 500, 1000, 2000 and 4000 mg/m ³
Custom Ranges	0 - 10 to 2000 ppm 0 - 20 to 4000 mg/m ³
Zero Noise	0.15 ppm RMS (30 second averaging time)
Lower Detectable Limit	0.3 ppm
Zero Drift (24 hour)	1 ppm
Span Drift (24 hour)	± 1% full scale
Response Time	60 seconds (0 - 90% at 30 second averaging time)
Precision	± 0.3 ppm or 1% of full scale
Linearity	± 1% full scale for 1000 ppm and below
Sample Flow Rate	0.5 - 2 liters/ min.
Operational Temperature	32°F (0°C) - 113°F (45°C) Operational 68°F (20°C) - 86°F (30°C) Performance
Power Requirements	275 Watts 100 VAC, 50/60Hz, 115 VAC, 50/60Hz, 220 - 240 VAC, 50/60 Hz
Size and Weight	16.75"(W) x 8.62"(H) x 23"(D), 49 lbs. (20.4 kg)
Outputs	Selectable Voltage, RS232/RS485, TCP/IP, 10 Status Relays and Power Fail Indication (standard) 0-20 or 4-20 mA Isolated Current Output (optional)
Inputs	16 Digital Inputs (standard), 8 0-10Vdc Analog Inputs (optional)

Ordering Information

Model 46i-HL High Level Nitrous Oxide Analyzer

Choose from the following configurations/options to customize your own Model 46i-HL analyzer

1. Voltage options:

A = 120 VAC 50/60 Hz (standard)

B = 220 VAC 50/60 Hz

J = 100 VAC 50/60 Hz

D = 220 VAC 50/60 Hz (China)

2. Application:

L = Source

3. Internal zero / span and O₂:

N = No zero / span valve (standard)

Z = Internal zero / span valves

4. Filter Wheel Purge:

S = Standard plumbing

P = Filter wheel purge setup

5. Optional I/O:

A = None (standard)

C = I/O expansion board (4-20mA outputs- 6 channels, 0-10v inputs- 8 channels)

6. Mounting Hardware:

A = Bench mounting and Ears/Handles, EIA

Your Order Code: Model 46i-HL - _____

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, visit our website at thermoscientific.com

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

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