PRODUCT SPECIFICATIONS

Thermo Scientific Model 46i

Nitrogen Oxide Analyzer

Utilizes gas filter correlation technology to measure ambient levels of nitrous oxide concentrations

The Thermo Scientific[™] Model 46i Nitrous Oxide Analyzer utilizes gas filter correlation technology to measure ambient levels of Nitrous Oxide (N₂O) concentrations.

Features

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

Introduction

The Thermo Scientific Model 46*i* Analyzer helps users to comply with global greenhouse gas regulations. Nitrous Oxide has been identified as a primary greenhouse gas with a greater potential for global warming effects than Carbon Dioxide (CO_2) .

The Model 46*i* Analyzer uses an exact calibration curve to accurately linearize the instrument output over any range up to a concentration of 50 ppm, and is available in both dual and auto range modes.



In addition, the Model 46*i* Analyzer features automatic pressure and temperature correction that provides an increased resistance to shock and vibration while delivering enhanced specificity and sensitivity. Ethernet connectivity provides efficient remote access, allowing the user to download measurement information directly from the instrument without having to be onsite.

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.



Thermo Scientific[™] Model 46*i* Nitrous Oxide Analyzer



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Thermo Scientific Model 46i Nitrous Oxide Analyzer

Specifications	
Preset ranges	0-0.2, 0 0.5, 1, 2, 5, 10, 20, and 50 ppm 0-0.1, 0.2, 0.5, 1, 2, 5, 10, 20, and 30 μg/m ³
Custom ranges	-0.2 to 50 ppm, 0 - 0.5 to 100mg/ m ³
Zero noise	0.01 ppm RMS (30 second averaging time)
Minimum detectable limit	0.02 ppm (30 second averaging time)
Zero drift (24 hour)	< 0.05 ppm
Span drift (24 hour)	+/-1% full scale
Response time	60 seconds (0-90% at 30 second averaging time))
Precision	+/-0.4 ppb (500 ppb range
Linearity	± 2% full scale
Sample flow rate	0.5-2.0 liters/min.
Rejection ratio	Negligible interference from H_2O , CO_2 , CO
Temperature range	Performance specifi cations based on operation within 20°-30°C range (per U.S. EPA guidelines). Instrument may be safely operated over the range of 0°-45°C.
Power requirements	100 VAC, 50/60 Hz, 115 VAC, 50/60 Hz, 220-240 VAC, 50/60 Hz, 275 watts
Size and weight	16.75" (W) × 8.62" (H) × 23" (D), 55 lbs. 425 mm (W) × 219 mm (H) × 584 mm (D), 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 output (optional)
Inputs	16 digital inputs (standard), 8 0-10Vdc analog inputs (optional)

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.

Model 46i N	itrous Oxide Analyzer
	the following configurations/options to ur own Model 46 <i>i</i> Analyzer
1. Voltage o	ptions
A = 115 VAC	60 Hz
B = 220 VAC	50 Hz
D = 115 VAC	50 Hz
J = 100 VAC	50/60 Hz
2. Application	on
M = Ambient	(standard)
L = Source	
3. Internal z	ero / span and O ₂
N = No zero /	' span valve (standard)
Z = Internal z	ero / span valves
5. Filter Whe	eel Purge
S = Standard	plumbing
P= Filter whe	el purge setup
6. Optional	//0
A = None (sta	andard)
	nsion board (4-20mA outputs—6 channels uts—8 channels)
7. Mounting	Hardware
A = Bench m	ounting and ears/handles, EIA

Ordering information



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