

# Series 1300 Trace $N_2$ in Helium Analyzer

Nitrogen impurity measurement made fast, simple, reliable, and accurate



### **Features**

- · Guaranteed 10 ppb sensitivity
- Measuring system based on spectral emission of helium plasma
- Exceptional detector performance by utilizing patented electro-optical modulation
- On-line continuous trending
- Fast response...Fast recovery
- 4-20 mA output
- Dry contacts for over range indication
- Dry contacts for range selection indication
- No valves, columns, or carrier gas
- No radioactive source
- No sensor or detector to replace
- Maintenance free
- 19" Rack Mount or Bench Top
- · Available in two configurations
  - 0-2/0-20 parts per million (ppm)
  - 0-20/0-200 ppm

## **Practical Applications**

- Cryogenic truck loading stations
- Specialty gas laboratories
- Process control
- New line certification
- Gas management/monitoring systems
- Quality control for truck fills & gas cylinders
- · Welding gas management
- Semiconductor manufacturing

# Specifications — Series 1300 Trace Nitrogen in Helium Analyzer

Measurement Ranges	$0 - 2 \text{ ppm N}_2 \text{ in Helium}$ $0 - 20 \text{ ppm N}_2 \text{ in Helium}$
Accuracy	$0 - 200 \text{ ppm } \overline{N}_2 \text{ in Helium}$ $\pm 0.02 \text{ ppm N}_2 \text{ in Helium on } 0 - 2 \text{ ppm range}$ $\pm 0.25 \text{ ppm N}_2 \text{ in Helium on } 0 - 20 \text{ ppm range}$ $\pm 2.50 \text{ ppm N}_2 \text{ in Helium on } 0 - 200 \text{ ppm range}$
Response Time	90% of full scale: 11 seconds 95% of full scale: 13 seconds
Sample Flow Required	2 scfh (0.88 slpm)
Sample Conditions	1/4" VCR® sample inlet 1/4" Swagelok® vent
Recommended Calibration Gases	
Ambient Temperature Limits	60 - 95 °F (16 -35 °C)
Maximum Operating Pressures	10 psig (69 kPa) at sample inlet 6 psig (41 kPa) on analytical cell
Nominal Sample Inlet Pressure	2 - 7 psig (14 - 48 kPa)
Display	LED Digital
Output	4 - 20 mA Dry contacts for range selection indication Dry contacts for over range indication
Detector Type	Spectroscopic emission
Sensitivity	$\pm 0.01$ ppm $N_2$ in helium
Power	~ 100 W, 115/230 VAC, 50/60 Hz
Dimensions	5.25" H x 16.625" W x 14.625" D (13.34 x 42.23 x 37.15 cm)
Weight	25 lbs (11.3 kg)

Specifications and features will vary depending upon system configuration and are subject to change without notice. The above specifications are established during design, but are not to be construed as test criteria for every product.

## **Ordering Information**

Series 1300-A.......0-2/0-20 ppm Range, 115 V Series 1302-A......0-2/0-20 ppm Range, 230 V Series 1302-B.......0-20/0-200 ppm Range, 230 V



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