

LD8000

New online trace Nitrogen in Argon/Helium analyzer

The LD8000 is the new standard for trace Nitrogen. Its unique design brings the reliability not met on the market before. Its own *Plasma Emission Detector System extends the lifetime of the cell 50% more than any other system on the market. This Duty Cycle Controlled System has the property to decrease contamination and coating inside the plasma cell giving a more efficient, reliable and accurate analyzer than any other system available.



*Patent Pending

> FEATURES:

- Unique Plasma Emission Detector design based on a Duty Cycle Controlled System*
- Temperature regulated for the permeation device. Offer better stability
- Bootloader integrated for software update via Ethernet
- Large scale measurement
- 4-20 mA output as standard
- Range Identification Relay
- Maintenance free
- LAN/Web control
- Micro-valve for very low dead volume and fast purging time
- Low sample consumption
- 3U cabinet

> APPLICATIONS:

- Air separation unit
- Cryogenic truck loading station
- Speciality gas laboratories
- Process control
- Argon purification plant
- Steel Industries
- Chemical plants
- Welding gas control
- Helium liquification plants
- Gas management system
- Semiconductor manufacturing
- Quality control for truck fills and gas cylinders



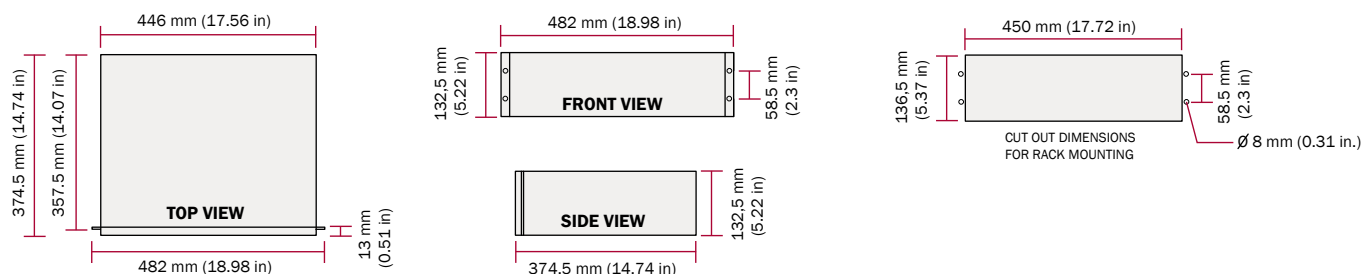
> SPECIFICATIONS:

DETECTOR TYPE	Plasma Emission Detector design based on a Duty Cycle Controlled System		
RANGE	0 – 1 ppm, resolution to 10 ppb 0 – 10 ppm, resolution to .1 ppm 0 – 100 ppm, resolution to 1 ppm other range possible up to 10000 ppm		
ACCURACY	Better than $\pm 1\%$ full scale		
STANDARD FEATURES	• Manual or autoranging (user selectable) • Microprocessor controlled • 5.6" TFT intelligent LCD module with Touch Screen • Self diagnosis system with auto-resolve alarm • LAN/Web control • 4-20 mA isolated output		
OPTIONS	• Alarm Historic • Safe calibration procedure to avoid any bad calibration • Digital outputs for remote monitoring: (all dry relay contacts) - System status (1 output) - Range in use (3 output) - Calibration in use (1 output) • Serial port: RS-232 / 422 / 485 / Profibus • 2 alarm outputs (user programmable set point)		
GAS CONNECTIONS	Sample: 1/8" Truelok tube fitting		
VENT	1/8" Truelok tube fitting		
CALIBRATION GAS	Zero: LDP1000 purified gas (Getter)		
SPAN	8.0 to 9.5 ppm N ₂ /Ar		
SAMPLE FLOW REQUIREMENTS	15 to 200 sccm		
FLOW ACCURACY	0 to 200 sccm $\pm 1\%$ full scale		
MAX OPERATING PRESSURE	100 PSIG (689 kPAG)		
MIN OPERATING PRESSURE	4 PSIG (28 kPAG) optional 1 PSIG (7 kPAG)		
OPERATING TEMPERATURE	10 °C to 45 °C		
SUPPLY	115 VAC, 50 – 60 Hz or 220 VAC, 50 – 60 Hz		
POWER CONSUMPTION	Maximum 40 watts		
DRIFT	< $\pm 1\%$ over 24 hours		
WEIGHT	29 lbs (13 kg)		

> ORDERING INFORMATION:

LD8000	-XXX	-X	-X	-XXX
	Operating Voltage	A: Alarm option	S: intergrated sampling system	Serial communication
	120 : 120 volts 220: 220 volts		S1 : 1 sample inlet S2 : 2 sample inlets SR1: 1 sample inlet with remote control SR2: 2 sample inlets with remote control	RS2: RS-232 RS4: RS-485 PFB: Profibus

> DIMENSIONS:



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