

LD8000



TRACE NITROGEN IN ARGON, HELIUM AND CRUDE ARGON ANALYZER



The LD8000 is the new standard for trace Nitrogen. Its unique design brings reliability and accuracy needed for such measurement. Its own Plasma Emission Detector System extends the lifetime of the cell. 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.

FEATURES:

- Unique Plasma Emission Detector design based on a Duty Cycle Controlled System.
- 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
- Optional zero gas calibration free system

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

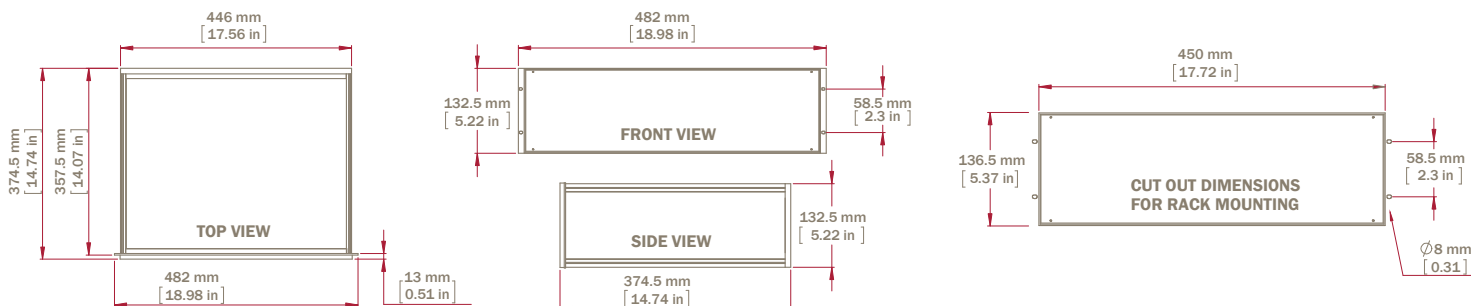
SPECIFICATIONS:

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
REPEATABILITY	< 1% full scale	
ACCURACY	Better than $\pm 1\%$ full scale	
STANDARD FEATURES	<ul style="list-style-type: none"> 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 Alarm Historic Safe calibration procedure to avoid any bad calibration Digital outputs for remote monitoring: (all dry relay contacts) <ul style="list-style-type: none"> - System status (1 output) - Range in use (3 output) - Calibration in use (1 output) 	
OPTIONS	<ul style="list-style-type: none"> Internal sampling system for zero, span and sample with remote capabilities Serial port: RS-232 / 422 / 485 / Profibus 2 alarm outputs (user programmable set point) Zero calibration gas free system 	
GAS CONNECTIONS	Sample: 1/8" compression fittings	Vent: 1/8" compression fitting
CALIBRATION GAS	Zero: LDP1000 purified gas (Getter)	Span: 8.0 to 9.5 ppm N2/Ar
SAMPLE FLOW REQUIREMENTS	15 to 200 sccm	
FLOW ACCURACY	0 to 200 sccm $\pm 1\%$ full scale	
MAX OPERATING PRESSURE	30 PSIG (207 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	-X	-XXX	-X	-XXX	-X	-XXX
	Ar: Argon H: Helium D: Dual (Argon + Helium) C: Crude Argon	Operating Voltage: 120: 120 volts 220: 220 volts	A: Alarm option	Integrated sampling system S1: 1 sample + zero + span S2: 2 samples + zero + span	C: zero gas free system	Serial communication: RS2: RS-232 RS4: RS-485 PFB: Profibus

DIMENSIONS:



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