

# LD8000



## TRACE NITROGEN IN ARGON, HELIUM AND CRUDE ARGON ANALYZER



The LD8000 is an online analyzer to monitor trace N<sub>2</sub> in Ar/He/Crude Argon. Plasma emission detector is used to selectively measure trace N<sub>2</sub> in Argon or/and Helium bulk gases. The analysis of trace N<sub>2</sub> in Neon, Xenon and Krypton can also be realized.



Plasma Emission  
Detector for N<sub>2</sub>

### FEATURES:

- Trace Nitrogen in Argon/Helium/Crude Argon
- Compact 3U rackmount enclosure
- Large scale measurement
- 4-20 mA outputs as standard
- LAN/Web control
- Range Identification Relay
- Micro-valve for very low dead volume and fast purging time
- Low sample consumption
- Optional zero gas calibration free system

### APPLICATIONS:

- Air separation unit
- Helium cryogenic installation
- 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
- Inert glove box systems
- Universities and laboratories

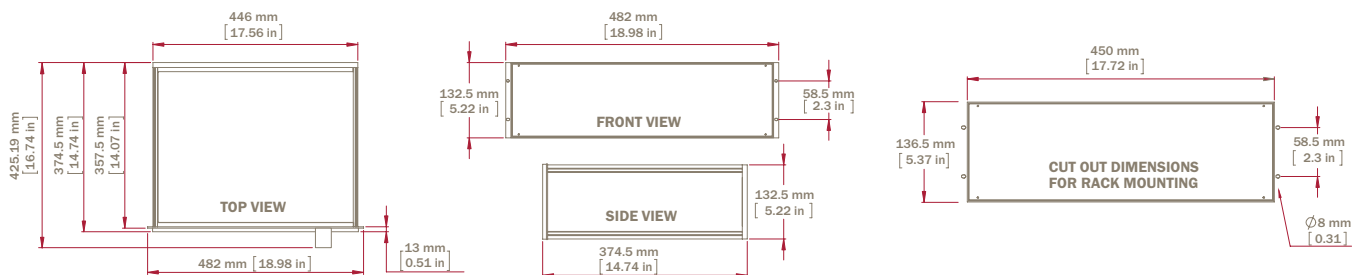
## SPECIFICATIONS:

<b>DETECTOR TYPES</b>	Plasma Emission Detector for N <sub>2</sub>	
<b>RANGE FOR N<sub>2</sub></b>	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 5000 ppm configurable
<b>STANDARD FEATURES</b>	<ul style="list-style-type: none"> <li>Manual or autoranging (user selectable)</li> <li>Microprocessor controlled</li> <li>5.6" TFT intelligent LCD module with Touch Screen</li> <li>Self diagnosis system with auto-resolve alarm</li> <li>4-20 mA isolated outputs</li> </ul>	<ul style="list-style-type: none"> <li>Alarm Historic</li> <li>Safe calibration procedure to avoid any bad calibration</li> <li>Digital outputs for remote monitoring: (all dry relay contacts) <ul style="list-style-type: none"> <li>- System status (1 output)</li> <li>- Range in use (3 outputs per impurity)</li> <li>- Calibration in use (1 output)</li> </ul> </li> </ul>
<b>OPTIONS</b>	<ul style="list-style-type: none"> <li>Internal sampling system for zero, span and sample</li> </ul>	<ul style="list-style-type: none"> <li>Serial port: RS-232 / 422 / 485 / Profibus</li> <li>2 alarm outputs (user programmable set point)</li> <li>Zero calibration gas free system</li> </ul>
<b>GAS CONNECTIONS</b>	Sample: 1/8" compression fittings	Vent: 1/8" compression fitting
<b>CALIBRATION GAS</b>	Zero: LDP1000 purified gas (Getter)	Span: 8.0 to 9.5 ppm N <sub>2</sub> (application dependant)
<b>SAMPLE FLOW REQUIREMENTS</b>	75 to 200 sccm	
<b>OPERATING TEMPERATURE</b>	10 °C to 45 °C	
<b>SUPPLY</b>	115 VAC, 50 – 60 Hz or 220 VAC, 50 – 60 Hz	
<b>ACCURACY</b>	Better than ± 1% full scale	
<b>DRIFT</b>	< ± 1%	
<b>RESPONSE TIME</b>	T90 < 10 seconds	
<b>OPERATING SAMPLE PRESSURE RANGE</b>	3-30psig (for lower sample pressure requirement, an additional high purity pump is used)	
<b>OUTLET PRESSURE</b>	Atmospheric	
<b>ENCLOSURE TYPE</b>	3U rackmount type	
<b>INGRESS PROTECTION</b>	IP20 in accordance with IEC 60529	
<b>ENCLOSURE FINISH</b>	RAL7030 powder coat	
<b>CERTIFICATION</b>	In compliance with EMC directive 2004/108/EC, EN 61000-6-2:2005 for immunity & EN 61000-6-4:2007 for emissions	
<b>WEIGHT</b>	29 lbs (13 kg)	

## ORDERING INFORMATION:

LD8000	-X	-X	-XXX	-X	-XX	-X	-XXX	-X
	<b>N2:</b> Nitrogen	<b>A:</b> Argon <b>H:</b> Helium <b>C:</b> Crude Argon <b>D:</b> Dual (Argon + Helium)	Operating Voltage: <b>120:</b> 120 volts <b>220:</b> 220 volts	<b>A:</b> Alarm option	Integrated sampling system <b>S1:</b> 1 sample + zero + span <b>S2:</b> 2 samples + zero + span	<b>C:</b> Zero gas free system	Serial communication: <b>RS2:</b> RS-232 <b>RS4:</b> RS-485 <b>PFB:</b> Profibus	<b>P:</b> Purge valve and flowmeter

## DIMENSIONS:



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