

LD8000 PLUS



ONLINE PPB TRACE NITROGEN IN ARGON/HELIUM ANALYZER



The LD8000-Plus is designed for ultra-pure Argon or Helium gas analysis. With its integrated ppb sub-system, unique performance can be achieved. Low ppb trace nitrogen online is now possible without the need of a gas chromatograph. This compact design makes it very attractive for any industrial or laboratory installation.

FEATURES:

- Unique Plasma Emission Detector design based on a Duty Cycle Controlled System.
- PPB sub-system integrated
- Bootloader integrated for software update via Ethernet
- Large scale measurement
- 4-20 mA output as standard
- Range Identification Relay
- Maintenance free
- Bypass sample flow control to insure high purity
- Low sample consumption
- 3U cabinet

APPLICATIONS:

- Air separation unit
- Speciality gas laboratories
- Process control
- Argon purification plant
- Chemical plants
- Helium liquification plants
- Gas management system
- Semiconductor manufacturing

SPECIFICATIONS:

DETECTOR TYPE	Plasma Emission Detector design based on a Duty Cycle Controlled System. Sub ppb system integrated.	
RANGE	0 – 100 : resolution 0.1 ppb 0 – 500 : resolution 1 ppb	0 – 5000 : resolution to 1 ppb, other range possible
REPEATABILITY	< 0.2% of range used	
ACCURACY	Better than $\pm 0.5\%$ of range used	
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 	<ul style="list-style-type: none"> 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"> Serial port: RS-232 / 422 / 485 / Profibus 2 alarm outputs (user programmable set point) 	
GAS CONNECTIONS	Sample: 1/8" face seal fittings	Vent: 1/8" compression fitting
CALIBRATION GAS	Zero: LDP1000 purified gas (Getter)	Span: 3 to 4 ppm N ₂ /Ar
SAMPLE FLOW REQUIREMENTS	15 to 200 sccm	
RECOMMENDED MAXIMUM OPERATING PRESSURE:	20 PSIG (689 kPAG)	
RECOMMENDED MINIMUM OPERATING PRESSURE:	10 PSIG (28 kPAG)	
OPERATING TEMPERATURE	10°C to 45°C (must be stable)	
SUPPLY	115 VAC, 50 – 60 Hz or 220 VAC, 50 – 60 Hz	
POWER CONSUMPTION	Maximum 70 watts	
DRIFT	< $\pm 0.5\%$ of range	
WEIGHT	37 lbs (17 kg)	

ORDERING INFORMATION:

LD8000-Plus	-XXX	-X	-XXX
	Operating Voltage: 120: 120 volts 220: 220 volts	A: Alarm option	Serial communication: RS2: RS-232 RS4: RS-485 PFB: Profibus

DIMENSIONS:

