

PlasmaDetek

GC Detectors



Download the complete specification and technical data sheet (2.54 mb)



THE LD8000 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

LD8000

ONLINE 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.

THE LD8000 SPECIFICATION

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 ± 1% full scale
STANDARD FEATURES	• Manual or autoranging (user selectable) • Microprocess controlled • 5.6" TFT intelligent LCD module with Touch Screen • Self diagnosis system with auto-restore alarm • LAN/Web control • 4-20 mA isolated output • Alarm History • 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)
OPTIONS	• 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 N ₂ /Ar
SAMPLE FLOW REQUIREMENTS	• 15 to 200 sccm
FLOW ACCURACY	• 0 to 200 sccm ± 1% full scale
MAXIMUM OPERATING PRESSURE	• 30 PSIG (207 kPaG)
MINIMUM 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	• < ± 1% over 24 hours
WEIGHT	• 29 lbs (13 kg)

THE LD8000 ORDERING INFORMATIONS

-X	A: Argon H: Helium D: Dual (Argon + Helium) C: Crude Argon	
-xx	Operating Voltage	120 : 120 volts 220 : 220 volts
-X	A: Alarm option	
-XXX	Integrated sampling system	S1: 1 sample + zero + span S2: 2 samples + zero + span
-X	C: zero gas free system	
-XXX	Serial communication	RS2: RS-232 RS4: RS-485

THE LD8000 DIMENSIONS

