LD8000

TRACE NITROGEN AND/OR OXYGEN IN ARGON, HELIUM AND CRUDE ARGON ANALYZER

The LD8000 is an online analyzer to monitor trace N2 and/or O2 in Ar/He/Crude Argon. Different technologies combination is used to achieve the complete solution inside one compact 3U cabinet:

Plasma Emission Detector for N_2

Electrochemical cell for O_2

FEATURES:

- Trace Nitrogen and Oxygen 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
- Front adjustment valve for sample bypass flow to purge the sample gas line before the analyzer
- 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

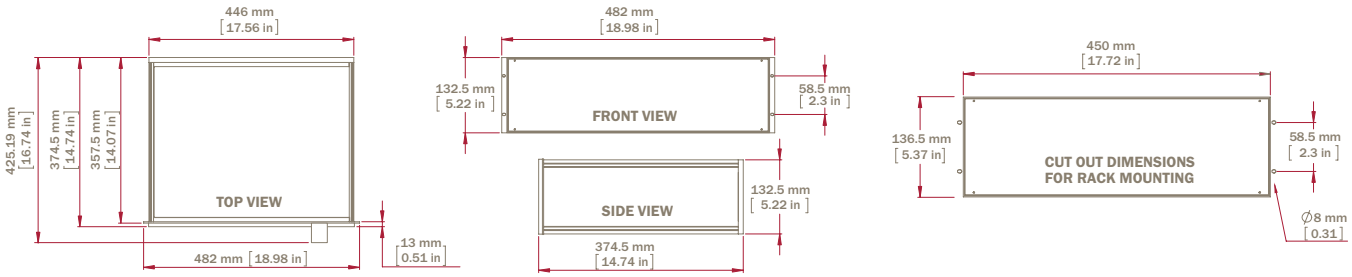
SPECIFICATIONS:

DETECTOR TYPES	Plasma Emission Detector for N_2 / Electrochemical cell for O_2	
RANGE FOR N_2	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 configurable
RANGE FOR O_2	0 – 10 ppm, resolution to 100 ppb 0 – 100 ppm, resolution to .1 ppm	0 – 1000 ppm, resolution to 1 ppm other range possible up to 25% configurable
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 • 4-20 mA isolated outputs	• Alarm Historic • Safe calibration procedure to avoid any bad calibration • Digital ouputs for remote monitoring: (all dry relay contacts) - System status (1 output) - Range in use (3 outputs per impurity) - Calibration in use (1 output)
OPTIONS	• Internal sampling system for zero, span and sample	• 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 and O_2 (application dependant)
SAMPLE FLOW REQUIREMENTS	75 to 200 sccm	
RECOMMENDED MAXIMUM OPERATING PRESSURE	30 PSIG (206 kPAG)	
RECOMMENDED 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	
ACCURACY	Better than ± 1% full scale	
DRIFT	< ± 1%	
RESPONSE TIME	T90 < 10 seconds	
O_2 SENSOR LIFE	15-21 months (depending O_2 concentration level exposition)	
WEIGHT	29 lbs (13 kg)	

ORDERING INFORMATION:

LD8000	-X	-X	-XXX	-X	-XX	-X	-XXX	-X
	N2: Nitrogen **02:** Oxygen **N2 + 02:** Nitrogen + Oxygen	**A:** Argon **H:** Helium **C:** Crude Argon **D:** Dual (Argon + Helium)	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	**P:** Purge value and flowmeter

DIMENSIONS:



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