

LD8000 MULTIGAS



MULTIGAS ONLINE GAS ANALYSIS SOLUTION



The LD8000 MultiGas is an online analyzer to monitor trace N₂ and 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 N₂



Electrochemical
cell for O₂



FEATURES:

- Trace Nitrogen and Oxygen in Argon/Helium/Crude Argon
- Compact 3U rackmount enclosure
- Large scale measurement
- 4-20 mA outputs as standard
- 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

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 N₂	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 O₂	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	<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 4-20 mA isolated outputs 	<ul style="list-style-type: none"> 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 outputs per impurity) - Calibration in use (1 output)
OPTIONS	<ul style="list-style-type: none"> Internal sampling system for zero, span and sample 	<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" 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	
O₂ SENSOR LIFE	15-21 months (depending O ₂ concentration level exposition)	
WEIGHT	29 lbs (13 kg)	

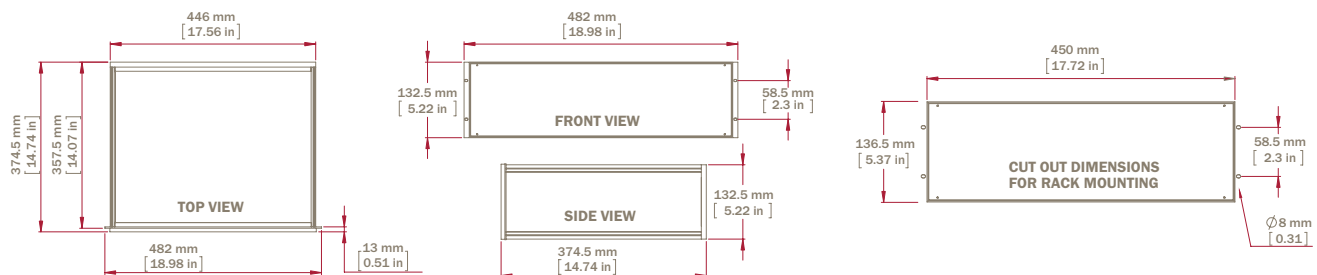
CERTIFICATION:

CE In compliance with EMC directive 2004/108/EC, EN 61000-6-2:2005 for immunity & EN 61000-6-4:2007 for emissions.

ORDERING INFORMATION:

LD8000 MULTIGAS	-X	-XXX	-X	-XXX	-XXX
	A: Argon H: 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	Serial communication: RS2: RS-232 RS4: RS-485 PFB: Profibus

DIMENSIONS:



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