

LD8001



TRACE NITROGEN IN ARGON, HELIUM AND CRUDE ARGON ANALYZER



The LD8001 is an online analyzer to monitor trace N2 in Ar/He/Crude Argon. Plasma emission detector is used to selectively measure trace N2 in Argon or/and Helium bulk gases. The analysis of trace N2 in Neon, Xenon and Krypton can also be realized.



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
- Touchscreen 7" HMDI TFT Display

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:

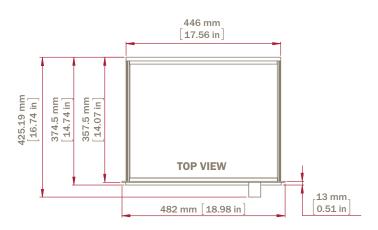
0. = 0			
DETECTOR TYPES	Plasma Emission Detector for N ₂		
RANGE FOR N ₂	0 - 1 ppm, resolution to 10 ppb 0 - 10 ppm, resolution to .1 ppm	0 – 100 ppm, resolution to 1 ppm other range possible up to 5000 ppm configurable	
STANDARD FEATURES	 Manual or autoranging (user selectable) Microprocessor controlled Touchscreen 7'' HMDI TFT Display 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 $\rm N_2^{}$ (application dependant)	
SAMPLE FLOW REQUIREMENTS	75 to 200 sccm		
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		
OPERATING SAMPLE PRESSURE RANGE	3-30psig (for lower sample pressure requirement, an additional high purity pump is used)		
OUTLET PRESSURE	Atmospheric		
ENCLOSURE TYPE	3U rackmount type		
INGRESS PROTECTION	IP20 in accordance with IEC 60529		
ENCLOSURE FINISH	RAL7030 powder coat		
CERTIFICATION	In compliance with EMC directives: IEC 61000-4-3: 2020, IEC 61000-4-6: 2013, IEC 61000-4-2: 2008, IEC 61000-4-4: 2012, IEC 61000-4-5: 2014 A1: 2017, IEC 61000-4-8: 2009, IEC 61000-4-11: 2020 for immunity & CISPR 32: 2015 A1: 2019, FCC Part 15, Subpart B: 2021, CISPR 32: 2015 A1: 2019, FCC Part 15, Subpart B: 2021 for emissions.		
WEIGHT	29 lbs (13 kg)		

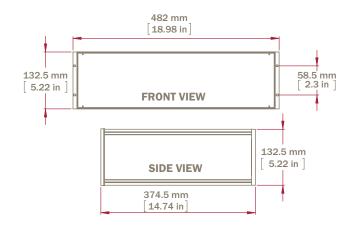
ORDERING INFORMATION:

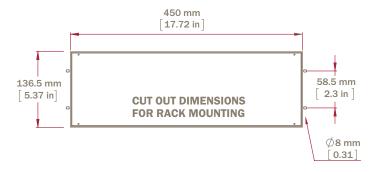
Product Parent Code : LD8001 LD8001 (ppm) Impurity N₂ , Detector PED

PRODUCT ORDERING CODE {Feature A} + {Feature B} + {Feature C} + {Feature D} + + {Feature H}			
Feature	Item	Description	
FEATURE {A}	BASE MODEL		
	LD8001	Trace N2 analyser with plasma emission detector, 0-1, 0-10, 0-100 ppm (as default), electronic flow control	
	SAMPLE GAS		
FEATURE {B}	B1	Argon	
	B2	Helium	
	B3	Crude Argon	
	B4	Dual (Argon + Helium)	
FEATURE {C}	OPERATING VOLTAGE		
	C1	120V	
	C2	220V	
FEATURE {D}	OUTPUT		
	DO	No output	
	D1	4-20 mA Outputs	
	D2	A (Alarm option)	
FEATURE {E}	SERIAL COMMUNICATION		
	EO	No Serial Interface	
	E1	Serial Interface - Modbus RS232	
	E2	Serial Interface - Modbus RS-485	
	E3	Serial Interface - Modbus Ethernet	
	E4	Serial Interface - Profibus	
FEATURE {F}	INTEGRATED SAMPLING SYSTEM		
	FO	No integrated sampling system	
	F1	1 sample + zero + span	
	F2	2 samples + zero + span	
FEATURE {G}	ZERO GAS FREE		
	GO	No Zero gas free system	
	G1	C (Zero gas free system)	
FEATURE {H}	PURGE OPTION		
	НО	No purged valve and flowmeter	
	H1	P (Purged valve and flowmeter)	

DIMENSIONS:









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