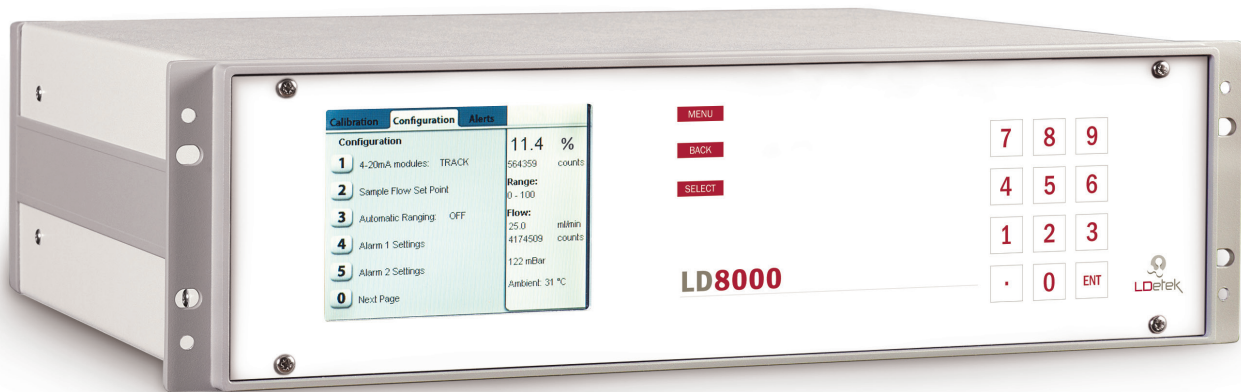


LD8000-TCD



BINARY GAS ANALYZER



The LD8000-TCD is a Thermal Conductivity-based Gas Analyzers used to measure and monitor binary gas streams. It can also monitor one component in a more complex gas mixture when the background gases have the same ratio to each other, or have similar thermal conductivity values.

FEATURES:

- Unique Thermal Conductivity Detector (TCD)
- 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
- 3U cabinet

APPLICATIONS:

- Gas Manufacturing Facilities: monitoring Pressure Swing Adsorption (PSA) Systems
- Gas management system
- Gas Blending Equipment
- Air Liquification Plants: monitoring purity of Ar, O₂, H₂, N₂, He, CO₂, or Ne
- Welding gas control
- Steel Mills: CO₂ in off-gas from gas generators
- Petroleum Refineries: H₂ purity in C₁ - C₆ hydrocarbons
- Speciality gas laboratories
- Heat Treating: H₂ in N₂ and other annealing gases
- Process control
- Power Generation Plants: H₂ cooling gas in turbine generator housings; CO₂ in turbine generator housing; checking H₂ purity
- Ammonia Plants
- Chemical plants
- Refrigeration Facilities

SPECIFICATIONS:

DETECTOR TYPE	Thermal Conductivity Detector (TCD)	
RANGE	Ppm to % (application dependant)	
ACCURACY	Better than $\pm 1\%$ full scale	
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 LAN/Web control 	<ul style="list-style-type: none"> 4-20 mA isolated output Alarm Historic 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"> Internal sampling system for zero, span and sample 	<ul style="list-style-type: none"> Serial port: RS-232 / 422 / 485 / Modbus 2 alarm outputs (user programmable set point)
GAS CONNECTIONS	Sample: 1/8" compression fittings	Vent: 1/8" compression fitting
SAMPLE FLOW REQUIREMENTS	0 to 300 sccm	
OPERATING PRESSURE	3 to 30 PSIG	
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	Dependent of calibration	
WEIGHT	30 lbs (14 kg)	

ORDERING INFORMATION:

LD8000-TCD	-XXX	-X	-XX	-XXX
	Operating Voltage: 120: 120 volts 220: 220 volts	A: Alarm option	Integrated sampling system: S1: 1 Stream + zero + span S2: 2 Streams + zero + span	Serial communication: RS2: RS-232 RS4: RS-485 MOD: Modbus

Binary gases must be specified. Please contact factory.

DIMENSIONS:

