

# LD2000



## ONLINE TRACE TOTAL HYDROCARBON ANALYZER



The LD2000 is an easy to use instrument that offers the ideal solution for the total hydrocarbon measurements. Its compact and robust design perfectly fits on any industrial installation. The LDetek FID and electronic platform bring the performances required by the market.

### FEATURES:

- LDetek FID design offering low maintenance
- Bootloader integrated for software update via Ethernet
- Large scale measurement
- 4-20 mA output as standard
- Range Identification Relay
- Unique LDetek Electronic flow controller design
- 3U cabinet



## APPLICATIONS:

- Air separation unit
- Cryogenic truck loading station
- Speciality gas laboratories
- Process control
- Steel Industries
- Chemical plants
- Welding gas control
- Gas management system
- Quality control for truck fills and gas cylinders
- Safety
- Product validation
- Scrubber & oxidizer efficiency
- Carbon bed breakthrough detection
- Well logging
- Industrial hygiene & safety monitoring
- Fence line (perimeter) monitoring around industrial sites
- CEMS (continuous emission monitoring systems)

## SPECIFICATIONS:

DETECTOR TYPE	Flame Ionisation Detector
RANGE	0-10 ppm 0-100 ppm 0-1000 ppm other range possible
REPEATABILITY	< 1% full scale
ACCURACY	Better than $\pm 1\%$ full scale
STANDARD FEATURES	<ul style="list-style-type: none"><li>• Manual or autoranging (user selectable)</li><li>• Microprocessor controlled</li><li>• 5.6" TFT intelligent LCD module with Touch Screen</li><li>• Self diagnosis system with auto-resolve alarm</li><li>• 4-20 mA isolated output</li><li>• Alarm Historic</li><li>• Digital outputs for remote monitoring: (all dry relay contacts)<ul style="list-style-type: none"><li>- System status (1 output)</li><li>- Range in use (3 output)</li><li>- Calibration in use (1 output)</li></ul></li></ul>
OPTIONS	<ul style="list-style-type: none"><li>• Serial port: RS-232 / 422 / 485 / Profibus</li><li>• 2 alarm outputs (user programmable set point)</li></ul>
GAS CONNECTIONS	Sample: 1/8" compression fittings Vent: 1/8" compression fitting
CALIBRATION GAS	Zero: LDP1000 purified gas (Getter) Span: 80%-90% of full scale of methane
SAMPLE FLOW REQUIREMENTS	50 to 200 sccm
AIR FLOW REQUIREMENTS	200 to 600 sccm
FUEL FLOW REQUIREMENTS	40 to 150 sccm
RECOMMENDED MAXIMUM OPERATING PRESSURE	40 PSIG
RECOMMENDED MINIMUM OPERATING PRESSURE	10 PSIG
OPERATING TEMPERATURE	10 °C to 45 °C
SUPPLY	115 VAC 50 - 60 Hz or 220 VAC 50 - 60 Hz
POWER CONSUMPTION	Maximum 50 watts
DRIFT	< $\pm 1\%$ over 24 hours
WEIGHT	27 lbs (12 kg)



## ORDERING INFORMATION:

LD2000	-X	-XXX	-X	-XXX
	<b>Ar:</b> Argon <b>H:</b> Helium <b>O:</b> Oxygen <b>N:</b> Nitrogen <b>A:</b> Air	Operating Voltage: <b>120:</b> 120 volts <b>220:</b> 220 volts	<b>A:</b> Alarm option	Serial communication <b>RS2:</b> RS-232 <b>RS4:</b> RS-485 <b>PFB:</b> Profibus

## DIMENSIONS:

