

# Remote LPC LE

LIQUID PARTICLE COUNTER

Ensure that the DI Water being supplied to your process always maintains a certain level of cleanliness. These units can be easily setup into Facility Monitoring Systems and can also be easily cleaned and maintained.

The Remote LPC LE has a range of 1.0 - 50 microns or 1.0 - 200 microns particle sizes in liquid, with a flow rate of 30 ml per minute. The sensor is designed to accurately measure up to 8 channels of simultaneous particle count data.

This liquid particle counter was created for continuous, 24 hour per day, 7 days per week operation. The instrument provides versatile mounting options allowing installation where space is at a premium.

## Features

- 1.0 - 50.0µm or 1 - 200µm Particle Size Channels
- 30 ml per minute flow rate
- LED status indicators for power and service
- 8 Channel output by modbus; 4 channel by 4-20mA
- Interfaces with facility monitoring systems
- Compact size
- Designed for reliability
- 2 Year Warranty



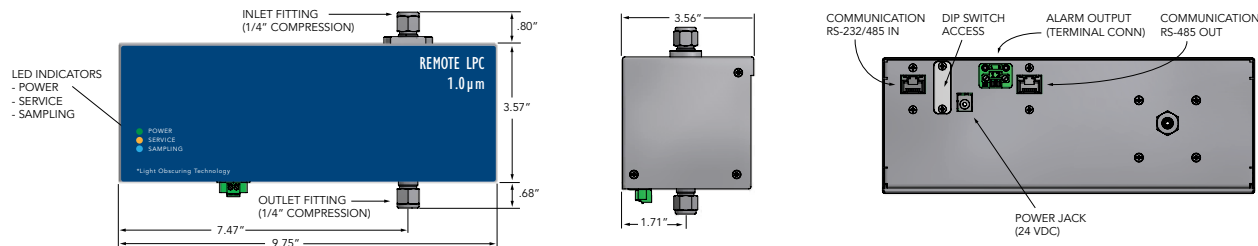
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Features / Models	Remote LPC LE 1.0-50µm	Remote LPC LE 1.0-200µm
Minimum Size Detection	1.0 µm	1.0 µm
Channel Sizes	1.0, 3.0, 5.0, 10.0, 15.0, 20.0, 25.0, 50.0 µm	1.0, 5.0, 10.0, 15.0, 20.0, 25.0, 50.0, 200.0 µm
Concentration Limit	40,000 counts/ml @ 5% coincidence error	50,000 counts/ml @ 5% coincidence error

Flow Rate	30 mL / minute
Laser Source	Laser Diode
Calibration	NIST Traceable
Data Storage	Rotating buffer 1,000 records
Communication Modes	RS232/485 via RJ45 to PC, RS485 modbus, ASCII, Modbus or MR protocol
LED Indicators	Power, Service, Sampling
Enclosure	Stainless steel
Sample Inlet/Outlet Connection	1/4" Compression
Sample Temperature	32 - 158°F (0 - 70°C)
Sample Pressure	150 PSI
Wetted Surface Materials	Stainless Steel 316L, Quartz, Kalrez
Power	24 VDC @ 150mA
Dimensions	9.75"(l) x 3.75"(w) x 3.80"(h) [24.7 x 9.0 x 9.6 cm]
Weight	4.30 lbs (1.95 kg)

Acceptable Chemicals	Symbol
Water	H <sub>2</sub> O
Deionized Water	DI H <sub>2</sub> O
Nitric Acid 70%	HNO <sub>3</sub> 70%
Sulphuric Acid 96%	H <sub>2</sub> SO <sub>4</sub>
Hydrochloric Acid 37%	HCL
Ammonium Hydroxide 29%	NH <sub>4</sub> OH
Hydrogen Peroxide 30%	H <sub>2</sub> O <sub>2</sub>
Phosphoric Acid 86%	H <sub>3</sub> PO <sub>4</sub>
Potassium Hydroxide 1%	KOH
Isopropyl Alcohol	IPA
Acetone	C <sub>2</sub> H <sub>2</sub> O
N-methyl Perryiodine	NMP

Unacceptable Chemicals	Symbol
Ammonium Fluoride	NH <sub>4</sub> F
Hydrofluoric Acid 50%	HF 50%
Hydrofluoric Acid 5%	HF 5%
Hydrofluoric Acid 0.5%	HF 0.5%
Tetramethylammonium Hydroxide	TMAH
Buffered Hydrofluoric Acid	BHF
Buffered Oxide Etch	BOE

**Includes:** Power supply; 2x 10' Teflon sample tubing; USB - RJ-45 serial cable, Power supply.

**Optional:** Flowmeter, additional sample tubing, remote mounting plate, stand with flowmeter mounting, RS232 communication kit, RS485 adapter cable.



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