



REMOTE LPC 0.1 µm LIQUID PARTICLE COUNTER

Designed with quality in mind, the **REMOTE LPC 0.1µm** liquid particle counter was created for continuous 24 hour, 7 days a week operation.

Following a quality standard of reliability and dependability, Lighthouse developed the **REMOTE LPC 0.1µm** using the latest in optical particle counter technology.

With a sensitivity of 0.2 micron and a sample flow rate of 100 ml/min, the **REMOTE LPC 0.1µm** provides real-time continuous data collection at a cost effective price per point.

The **REMOTE LPC 0.1µm** integrates seamlessly with large facility monitoring/management systems and transfers 4 channels of simultaneous particle count data using RS-485 Modbus.

Designed and built by **Lighthouse**, a name you can trust.

Features:

- ★ Size Range 0.1 – 1.0 µm
- ★ 4 Channel Sizes
- ★ Sample Flow Rate 100 mL per Minute
- ★ Stainless Steel Enclosure
- ★ Status Indicators
- ★ External Alarm Output
- ★ RS-485 Modbus, Optional Ethernet
- ★ Interfaces to Facility Monitoring Systems
- ★ Small Size
- ★ Designed for Reliability

Benefits:

- ★ 2 Year Warranty
- ★ Easy to Install when Space is an Issue
- ★ Cost Effective Price Per Point
- ★ Easy System Integration
- ★ International Support
- ★ Low Cost of Ownership

Applications:

- ★ Quantifying Particle Concentration in State of the Art High Purity Water Systems
- ★ Filter Efficiency Particle Measurements
- ★ Trending Analysis at Lower Particle Concentrations
- ★ Episodic Particle Event Tracking and Alarming
- ★ Manufacturing Process Control
- ★ Continuous System Particle Monitoring
- ★ Process Bath Monitoring
- ★ DI Water Monitoring
- ★ Parts Cleaning Testing
- ★ Water Quality Monitoring



Specifications- REMOTE LPC 0.1

Size Range:	0.1 – 1.0 µm
Channel Sizes:	Standard: 0.1, 0.3, 0.5, 0.7 Standard: 0.1, 0.5, 1.0, 1.0
Laser Source:	Laser Diode
Flow Rate:	100ml/min
Calibration:	NIST Traceable
Data Storage:	250 Samples
Communication Modes:	RS-232 via RJ45 to PC, RS485/Modbus, Optional Ethernet
LED Indicators	Power, Service, Sampling
Supporting Software:	LMS Express, LMS Express RT, LMS Express RT+, LMS Net
Concentration Limit:	4,000 counts/ml @ 5% Coincidence Error
External Alarm Output	Normal Open Dry Contact Rated 0 – 60v AC/DC 1 Amp
Enclosure:	Stainless Steel
Sample Inlet/Outlet Connection:	1/4" Flaretek™
Sample Temperature:	32 - 302°F (0 – 150 °C)
Sample Pressure:	150 PSI
Wetted Surface Materials:	Quartz, PTFE, PFA
Power:	24V DC
Dimensions:	5.7"(L) x 5.2"(W) x 3"(H) [14.47 x 13.2 x 7.6 cm]
Weight:	3.5 lbs (1.58 kg)

Environmental Conditions

Operating:	50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing
Storage:	14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing

Accessories

Included:	Operating Manual on CD, Power Supply
Optional:	Flow Control Device, Sample Tubing, Cabling, LMS Express, LMS Express RT, LMS Express RT+, LMS Net

Chemicals that can be used with the Remote LPC 0.1

CHEMICAL	SYMBOL
Water	H ₂ O
Deionized Water	H ₂ O, DI H ₂ O
Nitric Acid 70%	HNO ₃ , 70%
Sulphuric Acid 96%	H ₂ SO ₄
Hydrochloric Acid 37%	HCL
Ammonium Hydroxide 29%	NH ₄ OH
Hydrogen Peroxide 30%	H ₂ O ₂
Phosphoric Acid 86%	H ₃ PO ₄
Isopropyl Alcohol	IPA
Acetone	C ₃ H ₆ O
N-methyl Perryiodine	NMP

Chemicals that CAN NOT be used with the Remote LPC 0.1

CHEMICAL	SYMBOL
Nitric Acid 100%	HNO ₃ 100%
Ammonium Flouride	NH ₄ F
Hydrofloric Acid 50%	HF 50%
Hydrofloric Acid 5%	HF 5%
Hydrofloric Acid 0.5%	HF 0.5%
Buffered Hydrofloric Acid or Buffered Oxide Etch	BHF, BOE
Tetramethylammonium Hydroxide	TMAH

Please contact your local Lighthouse Sales Engineer for additional chemical compatibility.

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