



REMOTE LPC 0.1µm

Liquid Particle Counter

(4-20mA Output)

Incorporating the latest in laser optical particle counting technology, Lighthouse designed the **REMOTE LPC 0.1µm** liquid particle counter for continuous trouble-free operation.

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

These compact liquid particle counters provide versatile mounting options and can be installed where space is at a premium.

The **REMOTE LPC 0.1µm** integrates seamlessly into large facility monitoring and management systems and transfers up to 2 channels of simultaneous particle count data using the LWS 4-20mA protocol.

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

Lighthouse is an ISO 9001:2000 Registered Company.

www.golighthouse.com

Features:

- ★ Size Range 0.1 – 0.5 µm
- ★ 2 Channel Sizes
- ★ Sample Flow Rate of 100 ml per Minute
- ★ Stainless Steel Enclosure
- ★ Status Indicators
- ★ External Alarm Output
- ★ 4-20mA Output
- ★ Interfaces with Facility Monitoring Systems
- ★ Compact Size
- ★ Designed for Reliability

Benefits:

- ★ 2 Year Warranty
- ★ Installs in Limited Space
- ★ Cost Effective Price Per Point
- ★ Easy System Integration
- ★ International Support
- ★ Low Cost of Ownership

Applications:

- ★ Quantifying Particle Concentration in High-Purity Water Systems
- ★ Filter Efficiency Particle Measurements
- ★ Trend 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 Cleanliness Testing
- ★ Water Quality Monitoring



Specifications:

Size Range:	0.1 – 0.5 μm
Channel Sizes:	Standard: 0.1, 0.2 μm ; Optional: 0.1, 0.3 μm ; 0.1, 0.5 μm
Laser Source:	Laser Diode
Flow Rate:	100ml/min
Calibration:	NIST Traceable
Communication Modes:	RS-232 via RJ45 to PC, 4-20mA
LED Indicators	Power and Service
Concentration Limit:	64,000 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; Flow Cell cleaning brush; Micro90® solution; tubing.
Optional:	Printed Operating Manual; Flow Control Device; Sample Tubing; Cabling; Flaring Kit; Flare nuts; LPC Stand with Flow Meter mount; LPC Flowmeter - Aluminum; LPC Flow Meter - Teflon™ PFA; Remote Mounting Bracket.

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.

Manufactured by:

Distributed by:

