

RemoteLPC

REMOTE LIQUID PARTICLE COUNTER



INCORPORATING the latest in laser optical particle counting technology, Lighthouse designed the Remote LPC particle counter line for continuous trouble-free operation.

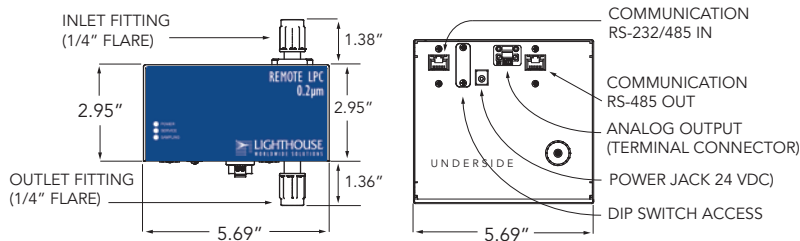
Select models with minimum sensitivity ranges of 0.1, 0.2, 0.3, or 0.5 μm . With a flow rate of 100 ml per minute, the Remote LPC provides real-time continuous data collection at a cost-effective price per point.

The Remote LPC integrates seamlessly into large facility monitoring and management systems and transfers up to 2 channels of simultaneous particle count data using the 4-20mA protocol or 4 channels of data via modbus.

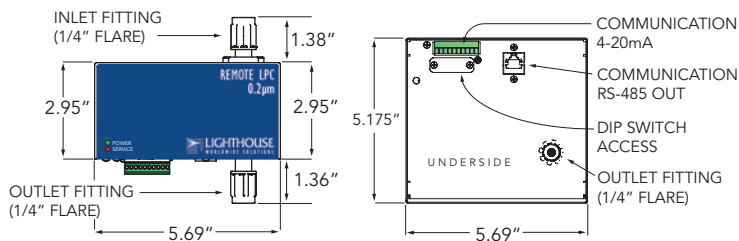
FEATURES

- Size ranges 0.1 - 100 μm
- Up to 4 channels of data
- 100 ml per minute flow rate
- LED status indicators for power and service
- 4-20mA or MODBUS output
- Interfaces with facility monitoring systems
- Compact size
- Designed for reliability
- 2 year warranty

MODBUS MODEL



4-20mA MODEL



T E C H N I C A L D A T A S H E E T

Remote LPC Remote Liquid Particle Counter

Features	Remote LPC 0.1 µm	Remote LPC 0.2 µm	Remote LPC 0.3 µm	Remote LPC 0.5 µm
Size Range	0.1 - 0.5 µm	0.2 - 2.0 µm	0.3 - 3.0 µm	0.5 - 100.0 µm
Standard 2 Channels 4-20mA	0.1, 0.2 µm	0.2, 0.3 µm	0.3, 0.5 µm	0.5, 1.0 µm
Optional 2 Channel 4-20mA	0.1, 0.3; 0.1, 0.5 µm	0.2, 0.5; 0.2, 1.0; 0.2, 2.0 µm	0.3, 0.7; 0.3, 2.0; 0.3, 3.0 µm	0.5, 2.0; 0.5, 5.0 µm
Standard 4 Channels Modbus	0.1, 0.2, 0.3, 0.5 µm	0.2, 0.3, 0.5, 0.7 µm	0.3, 0.5, 0.7, 1.0 µm	0.5, 0.7, 1.0, 2.0 µm
Optional 4 Channels Modbus		0.2, 0.5, 1.0, 2.0 µm	0.3, 0.5, 1.0, 3.0 µm	0.5, 1.0, 2.0, 5.0 µm
Concentration Limit	64,000 counts/ml @ 5% coincidence error.	4,000 counts/ml @ 5% coincidence error.	4,000 counts/ml @ 5% coincidence error.	4,000 counts/ml @ 5% coincidence error.

Flow Rate	100 mL / minute.
Laser Source	Laser Diode.
Calibration	NIST traceable.
Data Storage	Rotating buffer 2,000 records (modbus models)
Communication Modes	RS232/485 via RJ45 to PC, RS485 modbus, ASCII, Modbus or MR protocol.
LED Indicators	Power, Sampling (4-20mA model); Power, Service, Sampling (485 modbus model).
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 - 140°F (0 - 60°C)
Sample Pressure	150 PSI.
Wetted Surface Materials	Quartz, PTFE, PFA.
Power	24 VDC.
Dimensions	5.7"(l) x 5.2"(w) x 3.0"(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.

Included

Operating manual on CD; power supply; tubing; flow cell cleaning brush with Micro90 cleaning solution.

Optional

Printed operating manual; flow control device; sample tubing; cabling; flaring kit; flare nuts; LPC stand with flow meter mount; LMC flow meter aluminum; LPC flow meter Teflon PFA; remote mounting bracket.

Acceptable Chemicals

Water
 Deionized Water
 Nitric Acid 70%
 Sulphuric Acid 96%
 Hydrochloric Acid 37%
 Ammonium Hydroxide 29%
 Hydrogen Peroxide 30%
 Phosphoric Acid 86%
 Potassium Hydroxide 1%
 Isopropyl Alcohol
 Acetone
 N-methyl Perryiodine

Symbol

H₂O
 DI H₂O
 HNO₃ 70%
 H₂SO₄
 HCL
 NH₄OH
 H₂O₂
 H₃PO₄
 KOH
 IPA
 C₂H₂O
 NMP

Unacceptable Chemicals

Ammonium Fluoride
 Hydrofluoric Acid 50%
 Hydrofluoric Acid 5%
 Hydrofluoric Acid 0.5%
 Tetramethylammonium Hydroxide
 Buffered Hydrofluoric Acid
 Buffered Oxide Etch

Symbol

NH₄F
 HF 50%
 HF 5%
 HF 0.5%
 TMAH
 BHF
 BOE

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