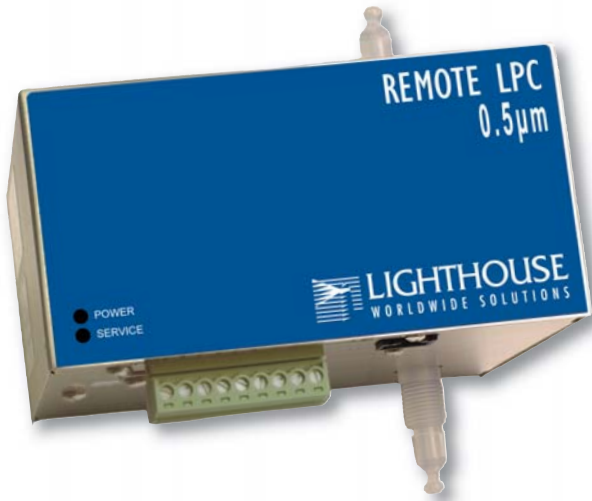




**LIGHTHOUSE**  
WORLDWIDE SOLUTIONS



## **REMOTE LPC 0.5µm**

### **Liquid Particle Counter**

#### **(4-20mA Output)**

Incorporating the latest in laser optical particle counting technology, Lighthouse designed the **REMOTE LPC 0.5µm** liquid particle counter for continuous trouble-free operation.

With a sensitivity of 0.5µm at a flow rate of 100 ml per minute, the **REMOTE LPC 0.5µm** 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 0.5µm** 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](http://www.golighthouse.com)

### *Features:*

- ★ Size Range 0.5 – 100.0 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:

<b>Size Range:</b>	0.5 – 100.0 µm
<b>Channel Sizes:</b>	Standard: 0.5, 1.0µm Optional: 0.5, 2.0µm; 0.5, 5.0µm
<b>Laser Source:</b>	Laser Diode
<b>Flow Rate:</b>	100ml/min
<b>Calibration:</b>	NIST Traceable
<b>Communication Modes:</b>	RS-232 via RJ45 to PC, 4-20mA
<b>LED Indicators</b>	Power, Service, Sampling
<b>Concentration Limit:</b>	4,000 counts/ml @ 5% Coincidence Error
<b>External Alarm Output</b>	Normal Open Dry Contact Rated 0 – 60v AC/DC 1 Amp
<b>Enclosure:</b>	Stainless Steel
<b>Sample Inlet/Outlet Connection:</b>	1/4" Flaretek™
<b>Sample Temperature:</b>	32 - 302°F (0 – 150 °C)
<b>Sample Pressure:</b>	150 PSI
<b>Wetted Surface Materials:</b>	Quartz, PTFE, PFA
<b>Power:</b>	24V DC
<b>Dimensions:</b>	5.7"(L) x 5.2"(W) x 3"(H) [14.47 x 13.2 x 7.6 cm]
<b>Weight:</b>	3.5 lbs (1.58 kg)

### Environmental Conditions:

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

### Accessories:

<b>Included:</b>	Operating Manual on CD; Power Supply; tubing; Flow Cell cleaning brush; Micro90® Solution
<b>Optional:</b>	Printed Operating Manual; Flow Control Device; Sample Tubing; Cabling; Flaring Kit; Flare nuts; LPC Stand with Flow Meter mount; LPC Flowmeter - Aluminum; LPC Flowmeter - Teflon™ PFA; Remote Mounting Bracket

#### Chemicals that can be used with the Remote LPC 0.5

CHEMICAL	SYMBOL
Water	H <sub>2</sub> O
Deionized Water	H <sub>2</sub> O, 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>
Isopropyl Alcohol	IPA
Acetone	C <sub>3</sub> H <sub>6</sub> O
N-methyl Perryiodine	NMP

#### Chemicals that CAN NOT be used with the Remote LPC 0.5

CHEMICAL	SYMBOL
Nitric Acid 100%	HNO <sub>3</sub> 100%
Ammonium Flouride	NH <sub>4</sub> 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.*

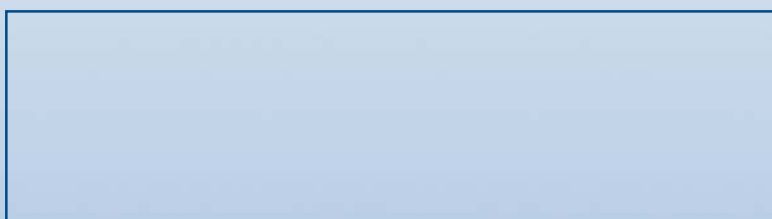
### Manufactured by:



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### Distributed by:



*Lighthouse Worldwide Solutions reserves the right to change specifications without notice.*