



REMOTE 5102V PARTICLE COUNTER

Compatible with VHP, the **REMOTE 5102V** meets the stringent requirements of today's aseptic processing applications.

The **REMOTE 5102V** uses a critical orifice and external vacuum source for flow control and incorporates our **Extreme Life Laser Diode Technology** sensor to produce the industry's first 20-year MTTF laser diode lifespan.

With a sensitivity of 0.5 micron and a controlled flow rate of 1.0 CFM (28.3 LPM), the **REMOTE 5102V** provides real-time continuous data collection at a cost-effective price per point.

The **REMOTE 5102V** can be integrated seamlessly into large facility monitoring and building management systems and transfers 2 channels of simultaneous particle count data using 4-20mA protocol.

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

Lighthouse is an ISO 9001:2008 Registered Company

www.golighthouse.com

Features:

- ★ VHP Compatible
- ★ 0.5 - 5.0 μm Size Range (with optional channels up to 25.0 μm)
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ 2 Channels of Simultaneous Data
- ★ Extreme Life Laser Diode Technology
>20-year MTTF Laser Lifespan @ 0.5 μm
- ★ Meets ISO 21501-4 Standards
- ★ Continuous Real-time Monitoring
- ★ Small Size
- ★ 316L Stainless Steel, Wash Down Resistant/
Splash-Tight Enclosure
- ★ Status Indicators
- ★ 4-20mA Communication
- ★ Interfaces with Facility Monitoring Systems
- ★ Uses External Vacuum Source
- ★ Designed for Reliability
- ★ 2 Year Warranty
- ★ International Support

Benefits:

- ★ Versatile Mounting Options
- ★ Easy to Install when Space is an Issue
- ★ Cost Effective Price per Point
- ★ Proven Data Integrity
- ★ Simple Integration into FMS Systems
- ★ Low Cost of Ownership

Applications:

- ★ Glass Coating
- ★ Aseptic Processing
- ★ Isolators
- ★ Cleanrooms

Industries:

- ★ Aerospace Industry
- ★ Pharmaceutical Industry
- ★ Biotechnology
- ★ Medical Applications



Specifications:

Size Range:	0.5 - 25.0µm
Channel Sizes: (Specify During Order)	Standard: 0.5, 5.0µm; Optional: 0.5, 10.0; 0.5, 25.0 µm
Counting Efficiency:	50% @ 0.5 µm; 100% for particles > 0.75 µm (per ISO 21501-4)

Flow Rate:	1.0 CFM (28.3 LPM)
Laser Source:	Laser Diode
Zero Count Level:	<1 count / 5 minutes (per ISO 21501-4)
Concentration Limits:	500,000 Particles/ft ³ @ 5% Coincidence Loss
Calibration:	NIST Traceable per ISO 21501-4
Vacuum Requirements:	External Vacuum > 18" (45.72) of Hg
Air Flow:	Critical Orifice controlled
Communication Modes:	4-20mA
LED Indicators:	Power, Service
Connector:	Industrial RJ45
Supporting Software:	Lighthouse Monitoring System, LMS Express, LMS Express RT, LMS Net
Enclosure:	316L Stainless Steel, Wash Down Resistant
Power:	24 VDC
Dimensions:	5.4" (l) x 4.6" (h) x 1.65" (d) [13.72 x 11.68 x 4.19 cm]
Weight:	17.3 oz (0.49 kg)

EXTREME LIFE LASER DIODE TECHNOLOGY

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:

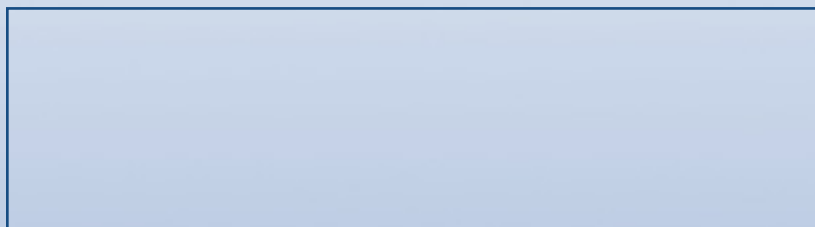
Included: Operating Manual on CD
Optional: Isokinetic Sampling Probe, Sample Tubing, Cabling, Purge Filter, RS-485 Hub

Manufactured by:

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