



**LIGHTHOUSE**  
WORLDWIDE SOLUTIONS



## REMOTE 5104V PARTICLE COUNTER

Compatible with VHP, the **REMOTE 5104V** meets the stringent requirements of today's aseptic processing applications. In addition, the **REMOTE 5104V** was designed to operate in CLASS I DIV 2 hazardous environments found in many challenging applications.

The **REMOTE 5104V** uses a critical orifice and external vacuum source for flow control. Built-in flow monitoring assures accuracy and reliability of the sensor's performance.

With a sensitivity of 0.5 micron and a monitored flow rate of 1.0 CFM (28.3 LPM), the **REMOTE 5104V** provides real-time continuous data collection at a cost-effective price per point.

The **REMOTE 5104V** integrates seamlessly with large facility monitoring and building management systems. It transfers up to 4 channels of simultaneous particle count data using RS-485 Modbus.

**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:

- ★ VHP Compatible
- ★ Class I Division 2 Rating
- ★ Built-in Flow Monitoring
- ★ 0.5 - 5.0  $\mu\text{m}$  (optional channels up to 25  $\mu\text{m}$ )
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ Up to 4 Channels of Simultaneous Data
- ★ Meets or Exceeds JIS Standards
- ★ Real-time Continuous Monitoring
- ★ Small Size
- ★ 316L Stainless Steel, Wash Down Resistant/  
Splash-Tight Enclosure
- ★ Status Indicators
- ★ RS-485 Modbus
- ★ Interfaces to 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:

<b>Size Range:</b>	0.5 - 25.0 $\mu\text{m}$
<b>Channel Sizes:</b>	Standard: 0.5, 5.0 $\mu\text{m}$ Optional 4 Channels: 0.5, 1.0, 5.0, 25.0 $\mu\text{m}$
<b>Counting Efficiency:</b>	50% @ 0.5 $\mu\text{m}$ ; 100% for particles > 0.75 $\mu\text{m}$ (per JIS)
<b>Flow Rate:</b>	1.0 CFM (28.3 LPM)
<b>Laser Source:</b>	Laser Diode
<b>Zero Count Level:</b>	<1 count / 5 minutes (per JIS)
<b>Concentration Limits:</b>	500,000 Particles/ft <sup>3</sup> @ 5% Coincidence Loss
<b>Calibration:</b>	NIST Traceable
<b>Vacuum Requirements:</b>	External Vacuum > 18" (45.72) of Hg
<b>Air Flow:</b>	Internally Monitored
<b>Communication Modes:</b>	RS-485/MODBUS
<b>LED Indicators:</b>	Power, Flow, Service, Sampling
<b>Connector:</b>	Industrial RJ45
<b>Supporting Software:</b>	Lighthouse Monitoring System, LMS Express, LMS Express RT, LMS Express RT Plus, LMS Net
<b>Enclosure:</b>	316L Stainless Steel, Wash Down Resistant/Splash-Tight
<b>Power:</b>	24 VDC
<b>Dimensions:</b>	4.2" (l) x 2.0" (w) x 3.7" (h) [10.7 x 5.08 x 9.398 cm]
<b>Weight:</b>	15.6 oz (0.44 kg)

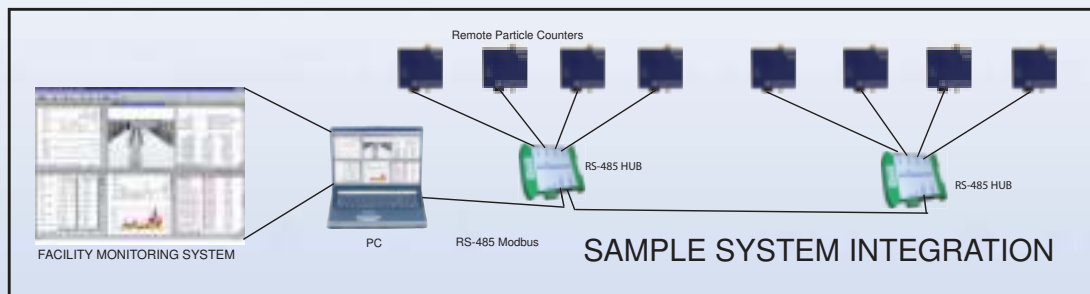
## Environmental Conditions:

**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

**Optional:** Isokinetic Sampling Probe, Sample Tubing, Cabling, Purge Filter, RS-485 Hub



Manufactured by:

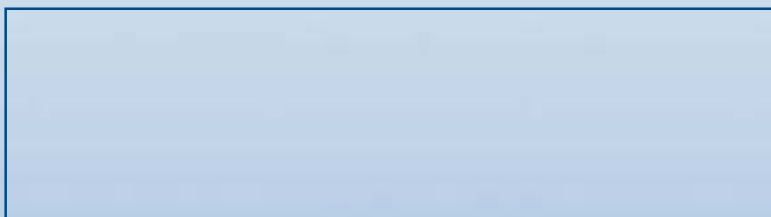


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*Lighthouse Worldwide Solutions reserves the right to change specifications without notice.*

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