

Remote5104PN

REMOTE PARTICLE COUNTER WITH PUMP & NEMA ENCLOSURE



T

HE Remote 5104PN meets the stringent requirements of today's aseptic processing applications by incorporating the latest in laser/optical particle counting technology inside of a 316L stainless steel NEMA style enclosure.

The Remote 5104PN uses a built-in vacuum pump and flow control system to insure accurate and reliable sensor performance.

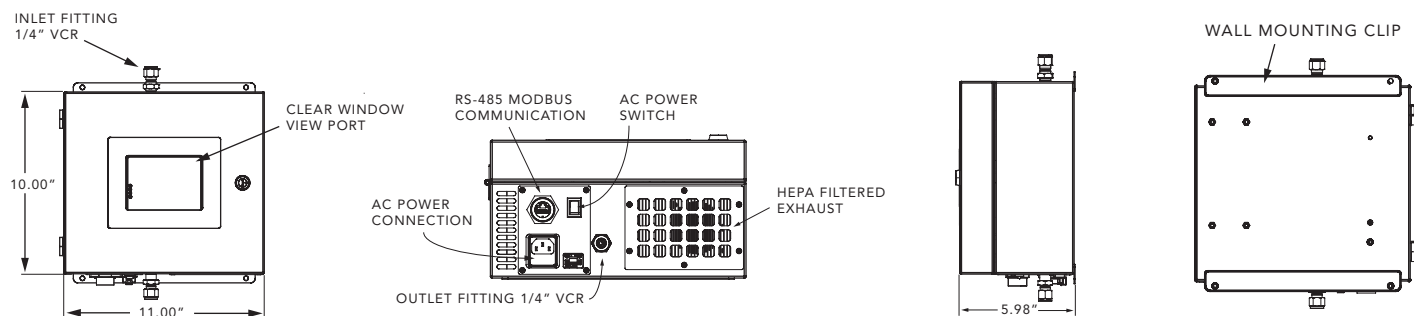
The Remote 5104PN integrates seamlessly into large facility monitoring and management systems and transfers up to 4 channels of simultaneous particle count data using RS-485 Modbus or Ethernet Modbus TCP.

F E A T U R E S

- 0.5 - 5.0 μm sensitivity
- 1.0 CFM (28.3 LPM) flow rate
- Internal vacuum pump with flow control
- Up to 4 channels of simultaneous count data
- Meets ISO 21501-4 standards
- NEMA style 316L stainless steel or
- NEMA style powder coated enclosure
- LED status indicators; power, flow, service, sampling
- RS-485 Modbus or optional ethernet Modbus TCP
- Interfaces to facility monitoring systems
- 2 year warranty



LIGHTHOUSE
WORLDWIDE SOLUTIONS



TECHNICAL DATASHEET

Remote5104PN Remote Airborne Particle Counter with Pump & Nema Enclosure

Features

Size Range	0.5- 25.0 μ m
Standard 2 Channels (Optional 4 channels)	0.5, 5.0 μ m; 0.5, 10.0 m
Counting Efficiency	50% @ 0.5 μ m; 100% for particles > 0.75 μ m (per ISO 21501-4)
Flow Rate	1.0 CFM (28.3 LPM)
Light Source	Laser Diode
Zero Count Level	< 1 count / 5 minutes per ISO 21501-4
Concentration Limits	1,000,000 particles /ft ³ @ 10% coincidence loss
Calibration	NIST traceable
Sample Output	Internally filtered to HEPA standards (>99.97% @ 0.3 μ m)
Vacuum Source	Internal Pump
Data Storage	Rotating buffer, 2,000 records
Air Flow	Internally monitored and controlled
Communciation Modes	RS-485 Modbus, optional Ethernet Modbus TCP
LED Indicators	Power, Flow, Service, Sampling
I/O Connection	RJ-45
External Pump Switch	2-pin Phoenix dry-contact relay
Supporting Software	LMS Express, LMS Express RT, LMS Pharma, LMS Pro.
Enclosure	NEMA style 316L stainless steel or powder coated steel
Power	110 / 220 VAC, 50 - 60 Hz or 24 VDC 100 W
Dimensions	10.0" (w) x 12.00" (h) x 6.9" (d); [25.4 x 30.4 x 14.9 cm]
Weight	AC model, 20 lbs (9 kg); DC model 19.5 lbs (8.85 kg)

Environmental Conditions

Operating: 50°F to 104°F (10°C to 40°C), humidity 20% to 95% non-condensing

Storage: 14°F to 122°F (-10°C to 50°C), humidity up to 98% non-condensing

Included

Operating manual on CD, AC or DC power input connector kit, Industrial RJ-45 kit, Fuse(s)

Optional

Printed Operating Manual, Cabling, Data cable, Sample Tubing, 24 VDC 100W power adapter (DC model)

Distributed By:



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