

# Remote 1100LD

## AIRBORNE PARTICLE COUNTERS

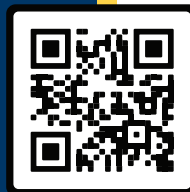



Using state-of-the-art long life laser diode technology, the Remote 1100LD Airborne Particle Counter is the industry's first laser diode based remote particle counter with a sensitivity of 0.1  $\mu\text{m}$  at a high flow rate of 1.0 CFM (28.3 LPM) that uses an optics and photodiode system designed to reduce or eliminate the temperature issues associated with high power laser diode sensors.

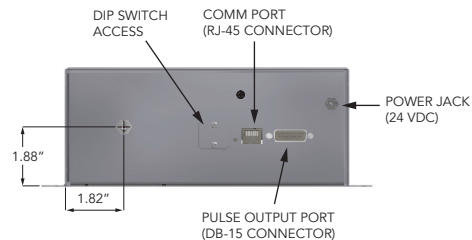
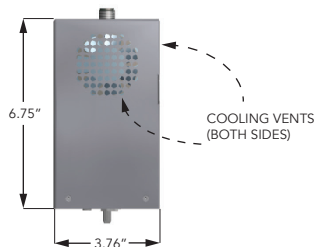
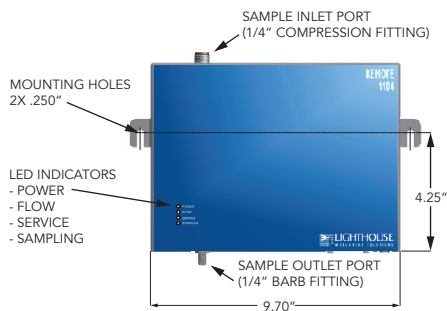
Designed with reliability and quality in mind, the Remote 1100LD features our long-life laser diode technology that provides higher concentration limits, a better signal to noise ratio and requires less routine maintenance than conventional HeNe laser-based particle counters.

### FEATURES

- 0.1- 1.0  $\mu\text{m}$  sensitivity
- 1.0 CFM (28.3 LPM) flow rate
- Up to 8 channels of simultaneous count data
- Worlds smallest 1.0 CFM 0.1  $\mu\text{m}$  particle counter
- Meets ISO 21501-4 standards.
- Long life laser diode
- Status indicators; power, flow, service, sampling
- RS-485 Modbus or CEMS communications
- Stainless steel enclosure
- Interfaces to facility monitoring systems
- Designed to ensure 21 CFR Part 11 compliance
- 2 Year Warranty



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## TECHNICAL DATASHEET

### Remote 1100LD Airborne Particle Counters

Features / Models	R1104	R1100
Minimum Size Detection	0.1 $\mu\text{m}$	0.1 $\mu\text{m}$
Standard 8 channel sizes	0.1, 0.15, 0.2, 0.25, 0.3, 0.5, 0.7, 1.0 $\mu\text{m}$	N/A
Standard 4 channel sizes	-	0.1, 0.2, 0.3, 0.5 $\mu\text{m}$
Communication	Serial - 485 Modbus RJ45	CEMS
Modbus Protocols	Serial or ASCII	N/a
Software	LMS Express, LMS Pharma, LMS Pro and LMS Xchange	LMS Xchange
Flow Rate / Nozzle Size	1 CFM (28.3 LPM), 1/4" fittings	
Concentration Limits	1,000,000 Particles/ft <sup>3</sup> @10% Coincidence loss suitable for ISO classes 1-8 cleanrooms	
Data Storage Records	999	
Self Diagnostics	laser current, background voltage	
Alarm Light	Yes	
Enclosure	304 Stainless Steel	
Power	24 VDC	
External Vacuum Requirements	Nominal 1.0 CFM 18" (45.72 cm) of Hg	
Light Source	Extreme Life Laser Diode	
Calibration	ISO 21501-4 Compliant and Accredited ISO 17025	
Zero Count Level	< 1 Count / 5 minutes (meets specifications of JIS B 9921 and reporting requirements of ISO 21501-4 Annex C)	
Dimensions	10.5" (w) x 7.65" (h) x 3.35" (d); [26.67 x 19.43 x 8.51 cm]	

**Includes** 24 VDC power adapter and power cord, Calibration Certificate, Purge Filter

**Optional** Temperature & humidity probe, 1 CFM isokinetic sample probe, 0.1 CFM isokinetic sample probe, Beveline tubing, printed operators manual

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