



KANOMAX
The Ultimate Measurements

LARGE AEROSOL PARTICLE MONITOR AES-LPM

The Kanomax AES-LPM Large Particle Sensing Monitor provides a cost-effective solution for continuously monitoring larger airborne and settling particles in painting, coating, printing, glass, and other contamination-sensitive manufacturing processes.

Designed to detect particles at 5 μm , the AES-LPM also provides reference measurements at 10 μm , 20 μm , 30 μm , and 50 μm . A four-level LED display gives operators an immediate visual indication of changing large-particle conditions.

Five output and communication interfaces support facility integration through alarm, Ethernet, analog voltage, Wi-Fi, and RS-485 connections. One-second data updates and optional temperature and humidity monitoring help facilities identify abnormal events and protect product quality.



AES-LPM LARGE PARTICLE SENSING MONITOR
110 × 125 × 76 mm



OPTIONAL TEMPERATURE/RH SENSOR
Model CHU-L151-11A-AES

APPLICATIONS

- Paint and Coating Booths — Monitor particles that may settle on wet paint or coated surfaces and contribute to visible finish defects.
- Automotive Painting Lines — Detect changing large-particle conditions that can increase rework or reduce production yield.
- Glass Manufacturing and Inspection — Monitor particles that may contaminate glass during production, coating, handling, assembly, or inspection.
- Printing Operations — Identify particles that may interfere with print quality, contaminate materials, or affect printing equipment.
- Product Inspection Areas — Monitor settling particles near inspection stations and sensitive optical quality-control systems.
- Multi-Point Facility Monitoring — Deploy multiple monitors at critical processes to compare conditions and identify localized contamination events.

FEATURES AND BENEFITS

- Large-Particle Detection — Monitor particles at 5 μm , with reference measurements at 10 μm , 20 μm , 30 μm , and 50 μm .
- Four-Level LED Display — View changing large-particle conditions immediately without connecting an external display.
- Continuous Abnormality Detection — One-second data updates help personnel identify contamination events quickly.
- Compact, Cost-Effective Design — Install the monitor near critical processes, production equipment, or inspection areas.
- Flexible Connectivity — Integrate through alarm, Ethernet, analog voltage, Wi-Fi, or RS-485 outputs.
- Multi-Point Monitoring — Deploy multiple AES-LPM monitors across larger manufacturing and controlled environments.
- Environmental Monitoring — Add continuous temperature and relative humidity measurement with the optional CHU-L151-11A-AES Sensor.

PRODUCT SPECIFICATIONS

AES-LPM Main Specifications		
Product Type		Large-Particle Sensing Monitor
Model		AES-LPM
Optical Source		Laser diode
Detectable Particle Size		5 µm / 10 µm / 20 µm / 30 µm / 50 µm (*1)
Measurement Range		Class 10,000 to Class 100,000
Measurement Unit		pcs/5 min (default), pcs/m ³ , pcs/cf, or pcs/L
Measurement Time		300 s
Data Update Time		1 s
Power Supply		+24 V DC
Maximum Current Draw		600 mA
Operating Temperature		0°C to 40°C
Storage Temperature		-20°C to 60°C
Operating Humidity		30% to 80% RH
Storage Humidity		Below 90% RH, non-condensing
Dimensions (W × H × D)		110 × 125 × 76 mm
Weight		Approximately 370 g
Applicable Wire Size		AWG 26 to AWG 20
Display		Four-level LED particle-level display
Output / Interface	Alarm	☐
	Ethernet	☐
	Analog Voltage Output	☐
	Wi-Fi	☐
	RS-485	☐
	Temperature and Humidity Measurement (*2)	☐
Notes		
(*1)	10 µm, 20 µm, 30 µm, and 50 µm measurements are provided as reference information.	
(*2)	Temperature and humidity measurement requires the optional CHU-L151-11A-AES sensor.	

**Specifications are subject to change without notice.*

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