Particle Sensing Monitor

AES-FP Series



Measurement with sensor unit independently is possible.



57 × 83 × 23.7(mm)



The best way to monitor cleanliness level in the manufacturing process of precision parts and work environments at low cost.



- Capable to detect suspended particles at low cost.
- Easy-to-check 4 step LED display for cleanliness level Class 1,000 to 100,000.
- Detect particles over 0.3 μ m (or 0.5 μ m) and over a few μ m* (*reference value).
- 5 models available for suitable application and communication interface.
- Detachable sensor unit to maintain continuous measurement during calibration.
- Temperature and humidity sensor available as an option.



Specification

- (*1) Class 1,000 is reference information.
 (*2) Unit can be changed only for FPM-2/52/4/54. Unit for over a few μm is [pcs/min] as fixed.
 (*3) The dedicated AC adapter is supplied separately as an option.
 (*4) Temperature and humidity sensor (Model#: CHU-L151-11A-AES) is required as an option.

			Particle Sensor Unit				
Model #(0.3 μm) : AES Model #(0.5 μm) : AES		FPM-1 FPM-51	FPM-2 FPM-52	FPM-3 FPM-53	FPM-4 FPM-54	FPS FPS-5	
Optical Source		Laser Diode					
Measurement Range		Class1,000 to Class100,000(*1)					
Unit		pcs/ m² (Default), pcs/cf, pcs/L(*2)					
Data Update Time		1s					
Power		12 to 24V(*3)					
Power Consumption (max)		600mA				200mA	
Operating Temperature		0 to 40℃					
Storage Temperature		-20 to 60℃					
Operating Humidity		30 to 80%rh					
Storage Humidity		Below 90%rh (No condensation)					
Output	LED Level Display	0	0	0	0	_	
	Reference LED	0	0	0	0	_	
	Analog Voltage(1-5V)	ı	_	0	_	_	
	Digital (Interface)	ı	(Ethernet)	_	(Ethernet) (Wi-Fi)	(RS485)	
Alarm Output		0	0	0	0	_	
Temperature and Humidity Measurement(*4)		_	0	_	0	_	
Weight		Approx. 210g				Approx. 65g	
Applicable Wire Size		AWG26 to 20					

Detachable Sensor Unit

Sensor unit is detachable and replaceable with new sensor unit to maintain continuous measurement during the sensor calibration.



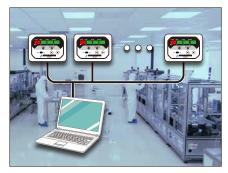
Specification for AES-FPM-□ & AES-FPS

Model #(0.3 μm) :	Р	Particle Sensor Unit				
AES-	FPM-1	FPM-2	FPM-3	FPM-4	FPS	
Detectable Particle Size	Over 0.3 μm / Over a few μm (Reference)					
Output Average Time	60 s					

Specification for AES-FPM-5□ & AES-FPS-5

Model #(0.5 μm) :	P	Particle Sensor Unit				
AES-□□□-5□	FPM-51	FPM-52	FPM-53	FPM-54	FPS-5	
Detectable Particle Size	Over $0.5 \mu \text{m}$ / Over a few μm (Reference)				eference)	
Output Average Time	300 s					

Application



Multi-point Measurement in Cleanroom Capable to measure at multi ple points at the same time. Easy network construction.



For Printing System Control to Keep Its Quality Continuous monitoring enabels to notify abnormal event occurrence and prevent contaminant particles adhesion to products.



Monitoring at Data Center and Server Room Constant monitoring in places where particles accumulation is disliked. Contribute to managing cleaning frequency.

Calibration Service

Annual calibration of sensor unit is recommended. For details, please contact retailer or us directly.

Issued Documents:

- · Calibration Certificate
- · Inspection Report
- · Traceability System Diagram

Temperature and Humidity Sensor (Optional)

Connect optional sensor (CHU-L151-11A-AES) to Particle Sensing Monitor for monitoring temperature and relative humidity continuously



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