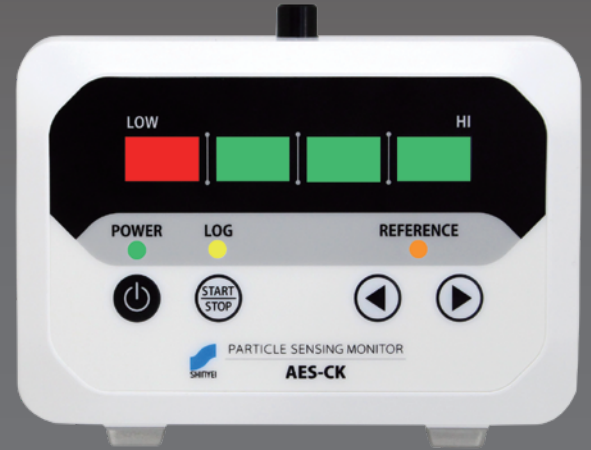# Particle Sensing Monitor
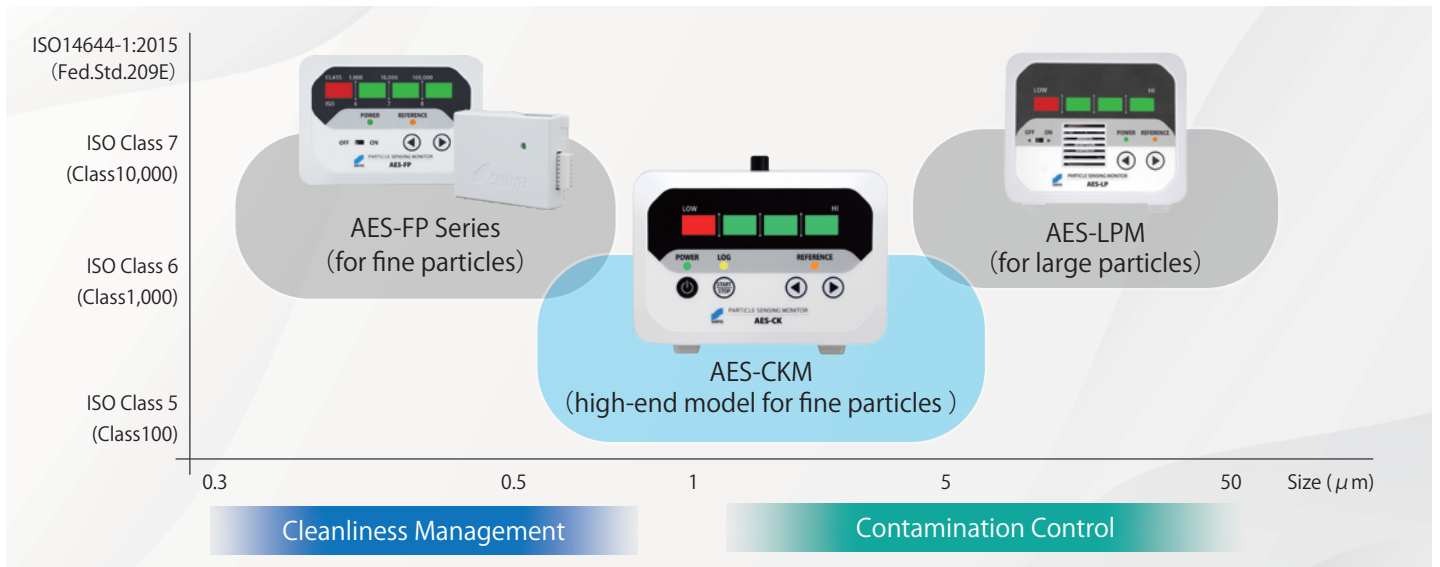# AES-CKM

High-end Model for Fine Particle Monitoring

AES-CKM
135 × 105 × 69.1 (mm)

High-end model **for more accurate measurements** in a clean environment with ISO Class 6 (Class 1,000).

◉ Capable to detect fine particles(over 0.5μm) and large particles(over 5μm) simultaneously.

◉ Easy-to-check 4 step LED display for cleanliness level.

◉ Logging function is embedded.

◉ 5 different outputs or communication interfaces.

◉ Continuous monitoring and quick notification of abnormalities.

◉ Temperature and humidity sensor available as an option.

SHINYEI

AES-CKM is for continuous monitoring of ISO Class 6 (Class 1,000) areas more accurately.

ISO14644-1:2015
(Fed.Std.209E)

ISO Class 7
(Class10,000)

ISO Class 6
(Class1,000)

ISO Class 5
(Class100)

AES-FP Series
(for fine particles)

AES-CKM
(high-end model for fine particles)

AES-LPM
(for large particles)

| 0.3 | 0.5 | 1 | 5 | 50 | Size (μm) |

Cleanliness Management

Contamination Control

Specification

(*1) Calibration point is only at 0.5μm range.

Model	AES-CKM
Detectable Particle Size *1	Over 0.5μm/ Over 5μm
Optical Source	Laser Diode
Measurement Range	ISO14644-1:2015 Class6-7 (Fed.Std.Class1,000 to Class10,000)
Unit	pcs/m3(Default), pcs/cf, pcs/L(*2)
Output/Interface	Alarm, Ethernet, Analog(1-5V), Wi-Fi, RS485
Measurement Time	60s
Data Update Time	1s
Memory Capacity	128kB (Equivalent to 3.5 days)
Power	+24V(Power terminal block)/+300mA(Max) +5V(Power supply Type-C conector)/+1A(Max)
Power Consumption (max)	1.5A Max(7.5W Max)
Operating Temperature	0 to 40℃
Storage Temperature	-20 to 60℃
Operating Humidity	30 to 80%rh
Storage Humidity	Below 90%rh (No condensation)
Weight	Approx. 510g
Applicable Wire Size	AWG26 to 20

Calibration Service (Optional)

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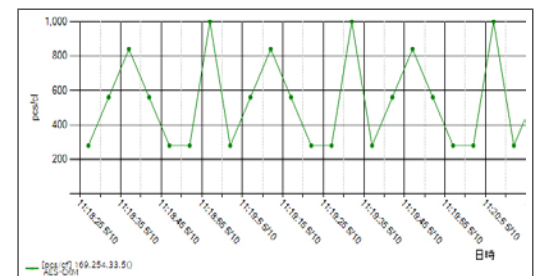For details, please contact retailer or us directly.

Issued Documents:
- Calibration Certificate
- Inspection Report
- Traceability System Diagram

Temperature and Humidity Sensor (Optional)

Connect optional sensor (RHU-LB151-11A-AES) to Particle Sensing Monitor for continuous monitoring of temperature and relative humidity.

Monitoring Software(Optional)

PC application software dedicated to AES series. Functions such as graph display, map display, and e-mail notification can be used.

Gateway (Optional)

Import data sent from particle sensing monitor without Dedicated PC.