



# Particle Monitor

## Model AES-1000

### Continuous Particle Monitoring for USP 797 and Modular Clean Room Applications

The AES-1000 particle monitoring system provides near real time stable particle measurements at low cost. Measurement covers the equivalent range of ISO class 5 through ISO class 8.

It uses a long life semiconductor laser to detect optical scatter by particles and an integral heater to provide continuous flow by thermal convection to provide a long maintenance free life.

### Applications

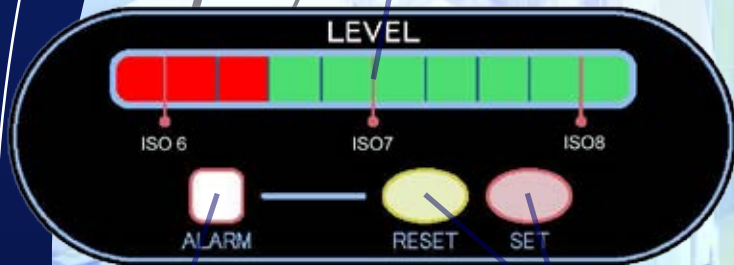
- Monitor and verify Cleanrooms  
Pharmaceutical / Semiconductor / Food Industry
- Buffer Zone Monitoring and Management
- IAQ Investigation

### Features & Benefits

- Stable and sensitive detection for Particulates of 0.5 microns and larger.
- Easy-to-read air cleanliness level, equivalent of ISO5/ Class 100 -ISO8/Class 100,000.
- Unique air sampling method using "heater" to generate updraft, preventing choked flow. Suction pump is not necessary.
- Alarm comes on when the setting level goes beyond the required cleanliness, while monitor gives alarm signal output.
- Link to Ethernet system with purpose of monitoring at multiple locations.
- 20,000 hour long life laser.
- Compact and light, easy installation and Low cost.
- Application: Any place where you need simplified cleanliness level monitoring.



LED Light continuously shows current air cleanliness. (equiv. of Class 100 - Class 100,000)



Alarm comes on when the setting level goes beyond the required cleanliness level while monitor gives alarm signal output.

Set and Rest for alarm.



## AES-1000 Optical Sensor Specifications

Monitoring Particle Size	0.5 microns
Display	10 x LED lights shows equivalent of Class; 100(ISO 5), 1,000(ISO 6), 2,000, 3,000,5,000,10,000(ISO 7), 20,000, 30,000, 10,000, 100,000(ISO 8)
Sampling Method	Updraft airflow generated by built-in heater enables air sampling
Optics	Semiconductor Laser, 20,000 hour life
Alarm Display	Alarm LED light comes on when reaching to setting level
Alarm Output	TTL Open collector output in sync with alarm display
Interface	Ethernet X 1 port
Supply Voltage	12VDC+/-10% 500mA
Operating Temp/Humidity	0 to 40 deg. C, 30 to 80%rh

Specifications are subject to change without notice.



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