

HSLIS M65 ATEX-ANSI/ISA-Compatible

Liquid Particle Counter



HSLIS M65 ATEX-ANSI/ISA-compatible particle counters allow continuous real-time monitoring of fluid particle contamination levels in Class I, Div 2 and ATEX Ex ec nA op is IIC T4 Gc environments.

Easily integrates into Facility Net software (or existing SCADA system) to provide an economical way to monitor multiple flow systems.

BENEFITS

- Packaged for easy installation into Class I, Div II and ATEX environments
- Particle measurement for solvents, chemicals and ultrapure water
- Simplify data analysis by using the same sensor throughout all of your fabs
- Low initial capital investment because packaging has already been completed
- Sealed package protects sensor from accidental chemical spills
- Simplified data interpretation and out-of-tolerance alerts with Facility Net

FEATURES

- 0.065 μm sizing sensitivity
- 4-20 mA outputs
- Sealed enclosure
- Stainless steel enclosure for solvent environments

APPLICATIONS

- Class I, Div 2 and ATEX environments
- Qualifying particle concentrations in flammable solvents
- Chemical delivery system monitoring
- In-line measurements in recirculating baths
- Quality assurance
- Continuous monitoring for process improvement

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Specifications

Size range	0.065 - 0.2 µm
Channels	4
Channel sizes	0.065, 0.1, 0.15, 0.2 µm
Optimum flow rate (ml/min)	100 ± 10% ml/min
Sample volume	0.6 ml/min
Counting efficiency	100% of the sample volume
Maximum concentration ¹	10,000 counts/ml
Sample temperature	167 °F (75 °C)
Zero count level	< 2,000 counts/l
Wetted surface materials	Teflon®, Kel-F®, Sapphire and Kalraz® 4079
Dimensions (l, w, h)	18 x 16 x 9 in (46 x 41 x 23 cm)
Weight	31 lb (14.1 kg)
Power	100 - 240 VAC, 50 - 60 Hz, 1.0 Amp max.
Laser classification	Class 1, complies with US 21 CFR 1040.10 and EN 60825-1. Internally an enclosed Class 3B laser is used per EN 60825-1.
Calibration	Calibration materials used are traceable to the US NIST (National Institute of Standards and Technology)
Environment	Temperature: 50 - 90 °F (10 - 32 °C) Humidity: non-condensing
Communications	Ethernet: includes five (5) 4-20 mA outputs, four (4) particle channels, one (1) instrument status RS-232: one (1) input for set-up and diagnostics only

¹ Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration.

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Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

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