

# HSLIS M65 ANSI/ISA-Compatible

Liquid Particle Counter



HSLIS M65 ANSI/ISA-compatible particle counters allow continuous real-time monitoring of fluid particle contamination levels in Class I, Div 2 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 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  $\mu\text{m}$  sizing sensitivity
- 4-20 mA outputs
- Sealed enclosure
- Fiberglass enclosure for chemical durability

## APPLICATIONS

- Class I, Div 2 environments
- Qualifying particle concentrations in a variety of acids, bases and mixtures
- Chemical delivery system monitoring
- In-line measurements in recirculating baths
- Quality assurance
- Continuous monitoring for process improvement

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## Liquid Particle Counter

### 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 <sup>1</sup>	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)	19 x 13 x 9 in (48 x 33 x 23 cm)
Weight	22 lb (10 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

<sup>1</sup> 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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