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HSLIS

In-Situ Sensor with PDS-PB Data System

The HSLIS In-Situ Sensor with PDS-PB Data System provides continuous real-time monitoring of contamination levels in DI water and process chemicals. Large sample volumes and high flow rates ensure good statistics and high confidence in the results. Integration of HSLIS monitors into FacilityNet¹ (via LAN-Nodes or MiniNodes²) provide an economical way to monitor multiple flow systems.



FEATURES

- High flow rates; 100-300 mls/min.
- Monitors 4 channel sizes
- Sensitivity to 0.05 microns for DI water
- Sensitivity to .065 microns for process chemicals
- Sealed enclosure and UL 1604 compliance available
- Data collection through *Facility Net*¹
- Print results on demand

APPLICATIONS

- Quantifying particle concentrations in UPW systems
- Monitoring chemical delivery systems
- Filter efficiency measurements
- Detecting bacterial growth in UPW systems

¹ *Facility Net* is available separately from Particle Measuring Systems

² LAN-Nodes and MiniNodes are available separately from Particle Measuring Systems

BENEFITS

Cost Reduction

- Automated software simplifies data analysis reducing manpower requirements and speeding reaction time
- Proven reliability lowers the maintenance cost
- High sensitivity detects small particles to improve yield
- Integration of 4 monitors into one PDS-PB data system
- Integration into facility monitoring software: *FacilityNet*¹

User Friendly

- Continuous real-time monitoring quickly identifies particle events and bacterial growth
- 0.05 micron sensitivity detects defect causing particles
- Industry standard instruments simplify site-to-site comparisons
- Custom packaging available for specialized applications

Easy to Use

- System includes CRT display, alphanumeric and histogram reports, RS-232 communications interface and built-in thermal printer
- Data can be downloaded to a PC through the bi-directional RS-232 communications interface
- Report formats include differential, cumulative and normalized counts



HSLIS

SPECIFICATIONS Monitors

	HSLIS M50	HSLIS M65	HSLIS M65 1604UL certified	HSLIS M100
Size Range (µm):	0.05-0.2	0.06-0.2	0.6-0.2	0.1-0.3
Optimum Flow Rate (ml/min):	100±10%	100±10%	100±10%	300±10%
Volume Sampled (ml/min):	0.25	0.6	0.6	3.0
Sample Compatibility:	DI Water	Corrosive Chemicals HF	Corrosive Chemicals HF	Corrosive Chemicals HF
Size Channel Thresholds/	4	4	4	4
Channel/Size (µm):	0.05, 0.1, 0.15, 0.2	0.065, 0.1, 0.15, 0.2	0.065, 0.1, 0.15, 0.2	0.1, 0.15, 0.5, 1.0
Max. Con./ml*	10,000	10,000	6,000	10,000
Sample Section (in)/Optic		0.125 x 0.125/wide angle 90°>2 pi steradians solid angle		
Sample Temperature	90° C	150° C	150° C	150° C
Laser Source	Laser diode, 780 nm			
Wetted Surface Materials	Teflon Kel-F Delrin Fused Silica	Teflon Kel-F Fused Sapphire Kalrez	Teflon Kel-F Fused Sapphire Chemrez or Kalrez	Teflon Kel-F Fused Sapphire Kalrez
Dimensions (l, w, h)	19 x 9 x 7 in (48.3 x 22.9 x 17.8 cm)			
Weight (lbs/kg)	33/15			
Power	100-240 V, 50-60 Hz, 1 amp maximum			
Calibration	Calibration materials used are traceable to USA NIST, ISO 4402, ASTM F-658			
Calibration Fluid	Water			
Environment	Temperature: 0°C-40°C Humidity: 0-95% noncondensing			

PDS-PB Data Systems

Max. # of probes:	2
Sizing Thresholds:	4 per monitor
Display and control/ Sampling mode:	5" CRT and 24-key alphanumeric keyboard/ Single, continuous or manual
Delay time/ Printer:	15 seconds to 99:59:59 programmable/ Full screen, thermal
Alarms:	Selection population/channel
Analog inputs:	16 frequency, 0-10 Hz
Analog Outputs (optional)	16 maximum, 4-20 mA
Computer Interface/ Power	RS 232C, bi-directional/100-240 V, 50-60 Hz, 23 amp max.
Dimensions (l, w, h)	19 x 14 x 7 in (48.3 x 35.6 x 17.8 cm)
Weight (lbs/kg)	28 / 12.7
Environment	Temperature: 0°C-40° C Humidity: 0-95% noncondensing

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

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

CE

AUTHORIZED REPRESENTATIVE



Registration applies to the Boulder, Colorado facility.



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