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Find the *Particle Measuring Systems HSLIS-M50-4-DI-(6)* at our website: *Click HERE*

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 FacilityNet[1] (via LAN-Nodes or MiniNodes[2]) 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

PARTICLE MEASURING SYSTEMS

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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/	5" CRT and 24-key alphanumeric keyboard/
Sampling mode:	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 looss) at maximum recommended concentration

CE

AUTHORIZED REPRESENTATIVE

ISO 9001
FM405/4
Registration applies to the Boulder, Colorado facility.

PARTICLE MEASURING SYSTEMS

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