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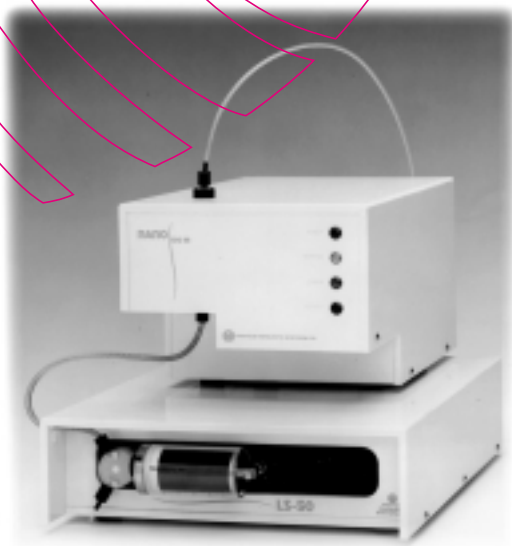
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Nano

In-Situ Sensor and LS-50 Liquid Sampler

The Nano In-Situ Sensor and LS-50 Liquid Sampler are designed for particle measurements in process chemicals and DI water. They are ideal for sampling main process supply lines or point-of-use delivery lines where continuous monitoring of contamination levels is necessary. The Nano can operate in either in-line monitoring or batch sampling environments.



FEATURES

- Real time data collection
- 0.1 sensitivity for DI water or process chemicals
- Batch sampling capability with syringe sampler
- Chemical resistant polypropylene enclosure
- RS-485 or RS232 communication
- 4 sizing channels

APPLICATIONS

- On-line monitoring of chemical delivery systems
- Batch sampling of chemical containers for particle assays
- In-Line measurements of recirculating chemical baths
- Measure filter efficiency
- Particle contamination in UPW

BENEFITS

Versatile

- In-line or batch sampling with syringe sampler
- Particle measurements in process chemicals and DI water
- Data collection with *FacilityNet*¹ software

Cost Reduction

- Low initial investment
- Continuous real-time monitoring reduces yield loss associated with particle events
- Automated software reduces monitoring costs

Easy to Use

- Data can be downloaded to a PC through the bi-directional RS-232 or RS485 communications interface
- *FacilityNet*¹ report formats include differential, cumulative and normalized counts

¹Facility Net is available separately from Particle Measuring Systems



Nano

SPECIFICATIONS

NANO 100M

Size Range (µm):	0.1-1.0
Optimum Flow Rate (ml/min):	50±10%
Volume Sampled (ml/min):	3@0.2µm 1.5@0.1µm
Number of Channels:	4
Channel/Size (µm):	0.1,0.2, 0.5, 1.0
Maximum Concentration*	10,000 particles/ml
Sample Section (in)/Optic	0.125 x 0.125/wide angle 90°>2 pi steradians solid angle
Sample Temperature (max.)	150° C
Laser Source	Laser diode, 780 nm
Wetted Surface Materials	Sapphire Kel-F PVDF Kalrez O-rings
Dimensions (l, w, h)	11.75 x 8 x 6 in (29.85 x 20.32 x 15.24 cm)
Weight (lbs/kg)	10/4.5
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
Serial Interface	RS232 and RS 485

Batch Sampler

LS-50

Syringe Size**	50 ml DI	25 ml Process Chemicals
Sampling Mode	Vacuum	
Minimum Sample Size	10% of syringe volume	
Weight	11.25 lbs (5.1 kg)	
Power	100-240V, 50-60 Hz, 1.25 amp max.	
Dimensions (l, w, h)	14 x 11.2 x 3.5 in. (35.6 x 28.4 x 8.9 cm)	
Environment	Temperature: 0°C-40° C Humidity: 0-95% noncondensing	
Operation Mode	Batch Sampling (non-continuous)	

*Greater than 90% accuracy (less than 10% coincidence loss)

**Syringes on batch sampling system require replacement at 24 hours or run time and are available in 1, 10, 25 ml sizes for non-Hydrofluoric Acid applications
Particle Measuring Systems reserves the right to change specifications without notice.

AUTHORIZED REPRESENTATIVE

CE



Registration applies to the Boulder, Colorado facility.



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