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TECHNOLOGY GROUP

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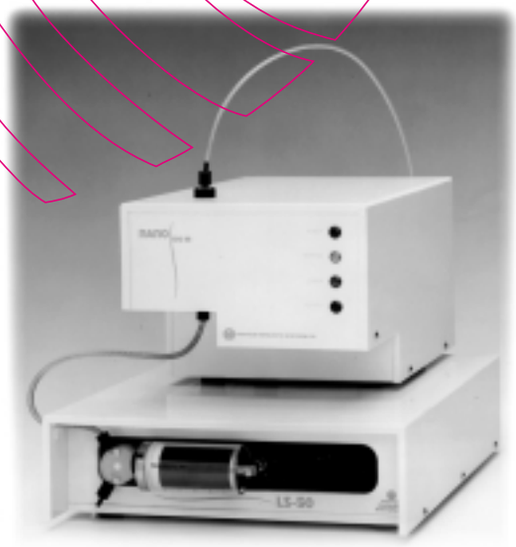
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Find the *Particle Measuring Systems LS-50* at our website: *Click HERE*

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 efficency
- 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

[1]Facility Net is available separately from Particle Measuring Systems

PARTICLE MEASURING SYSTEMS

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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

ISO 9001 BSI REGISTERED FM40574

Registration applies to the Boulder, Colorado facility.

PARTICLE MEASURING SYSTEMS

PARTICLE MEASURING SYSTEMS HEADQUARTERS
5475 Airport Blvd., Boulder, CO 80301
(303)443-7100 1-800-238-1801 FAX: (303)449-6870
Instrument Service & Support: 1-800-557-6363
Customer Response Center: 1-877-475-3317
www.pmeasuring.com

PARTICLE MEASURING SYSTEMS EUROPE
Enigma Business Park
Grovewood Road, Malvern, Worcestershire, WR14 1XZ, UK
Tel: +44 (0)1684-581000 FAX: +44 (0)1684-560337

PARTICLE MEASURING SYSTEMS ASIA PACIFIC
31 Kaki Bukit Road 3, #06-02,Techlink, Singapore 417818
Tel: (65) 8460-500 FAX: (65) 8460-700

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