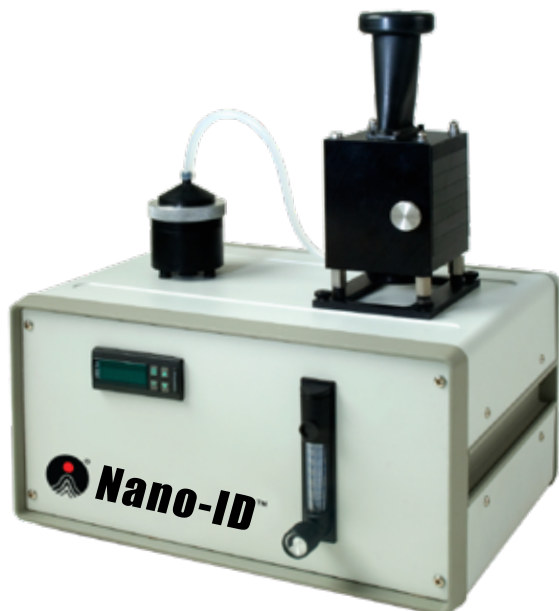


Nano-ID™

AVAILABLE
FOR LEASE



When reliable particle sizing and characterization is critical, Nano-ID performs across the total aerosol range.

For nanomaterial manufacturers and users, measuring small particles is not enough. Occupational Health and Safety (OHS) personnel understand that the characteristics and properties of nanoparticles as well as their transport behavior create many perils, including risks to worker health and safety, product quality, and environmental control.

The Nano-ID™ is a wide range aerosol sampler and offers unique capabilities for sampling of aerosol particulates. It size resolves samples from the total aerosol makeup, classifying particles with sizes from 2 nm (nanometer) up to 30 µm (microns) into 12 size bins. The robust design and simple controls allows for easy use in research labs, manufacturing facilities, and demanding field environments.

Particle Measuring Systems is a world leader in Microcontamination Monitoring equipment. With over 35 years of experience, Particle Measuring Systems helps improve the performance of clean manufacturers through the application of superior technology, quality, and service.



BENEFITS

- **Accuracy** – Low pressure technique and sample design
- **Collection Range** – Samples the total aerosol in one integrated wide range unit
- **Size Resolved** – 12 size bins partition particles from 2 nm to 30 µm microns
- **Ease of Use** – Sample substrates are inserted and removed in a simple fashion without disassembling the instrument
- **Characterization** – Size resolve structure, morphology and chemical composition of captured particulates
- **In-Situ** – Compact and portable with a programmable timer allows sampling at locations of interest
- **Reliability** – Robust lightweight design suitable for operation in demanding environments

APPLICATIONS

Air Quality Monitoring

- Detection of airborne ultra-fine and nano-particles in workplaces and other sensitive environments
- Characterization of engineered nano-objects (Carbon Nanotubes) against background aerosols
- Assessment of particle diffusion and transport behavior

Exposure Monitoring

- Risk assessment of exposure to airborne nano-objects and exposure-dose relationships
- Investigation of effectiveness for exposure control and prevention measures

Quality Control

- Manufacturing quality control of ultra-fine and nanopowder size distribution during synthesis
- Understanding of individual and agglomerated particle ratios

Without measurement, there is no control.

Particle Size*	2 nm–30 μ m (2 nanometers to 30 microns)
Principle of Operation	Inertial Deposition and Diffusion of airborne particles
Flow rate	20 L/min
# of Size Bins	12
Min. Cut off Diameter (μ m)	0.001, 0.002, 0.005, 0.015, 0.06 (diffusion sampler) 0.25, 0.5, 1.0, 2.0, 4.0, 8.1, 20.0 (inertial deposition)
Collection Substrates	Nylon or Stainless Steel nets (diffusion sampler) Glass slides (inertial deposition)
Operating Pressure	1 atm
Operating Temp	10–40°C
Power	110–120 VAC, 50/60 Hz, 2A 220–240 VAC, 50/60 Hz, 1A
Dimensions (l, w, h)	14 x 12 x 18 inches (36 x 30 x 45 cm)
Weight	24 lbs. (11 kg)

*equivalent diameter

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

AUTHORIZED REPRESENTATIVE



Particle Measuring Systems Headquarters
5475 Airport Blvd., Boulder, CO 80301
1-303-443-7100 1-800-238-1801 Fax: 1-303-546-7331
Instrument Service & Support: 1-800-557-6363
Customer Response Center: 1-877-475-3317

Particle Measuring Systems Europe
Tel: +44 1684 581000
PMSEurope@pmeasuring.com

Particle Measuring Systems Japan
PMSJapan@pmeasuring.com

Particle Measuring Systems Asia Pacific
PMSAsiaPacific@pmeasuring.com

Particle Measuring Systems Singapore
Tel: +65-6496 0330
PMSSingapore@pmeasuring.com

Particle Measuring Systems China
PMSChina@pmeasuring.com

Particle Measuring Systems Mexico
PMSMexico@pmeasuring.com

Particle Measuring Systems Puerto Rico
PMSPuertoRico@pmeasuring.com