

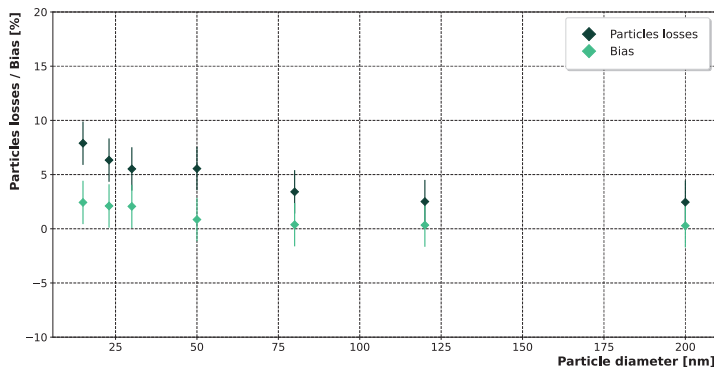
NANO DUST AEROSOL SWITCH

Comparing measurements from different particle sources or sampling treatments has always been a challenge in aerosol science. nanoDUST's unique, innovative aerosol switching technology used in the nanoDUST AirPN10 may also be used as a standalone device in calibration and research labs to enable reliable, repeatable, and automated comparison of two sample inputs to one particle measurement device. Our aerosol switch with straight-through design selects the sampling path with minimum bias and internal particles losses, providing accurate aerosol calibration process at highest degree of automation. Commands can be sent by an open protocol over a serial interface. All delivered aerosol switches are fully characterized in our particle lab and come with a calibration protocol. Two versions of the aerosol switch for flow rates of up to 1lpm and up to 5lpm are available. Custom-made with more cascaded inputs or OEM aerosol switches may be provided on request as well.



FEATURES:

- Reproducible switching between two aerosol sampling paths
- Little particles losses by straight-through aerosol pathway
- No measurable bias between aerosol flow paths
- Remote operation allows automation of lab processes
- Touchscreen for quick operation during manual lab procedures
- Optionally extendable to more inlets or specific needs



SPECIFICATIONS:

Application:	Automated switching of aerosol pathways between two inputs
Flow range:	V1: 1 lpm V2: 5 lpm
Particle Losses:	< 4 % at 80 nm <10 % at 15 nm
Bias:	< 3 %
Aerosol Connections:	V1: Tube ID 4 mm V1: Tube ID 6 mm
Calibration Aerosol:	NaCl
UI:	2.4" Touchscreen
Communication:	USB / RS485
Power:	24 V
Power Consumption:	<5 W
Weight:	~400 g