

MPS Meteorological Particle Spectrometer

Specifications

Parameter	Specification
Measured Parameters	Single-particle light imaging
Derived Parameters	Particle diameter Particle number concentration Liquid water content (LWC) Effective diameter (ED) Median volume diameter (MVD)
Technique	64-element diode array, 20-cm path length
Resolution	25, 50 or 100-micron resolution (specify when ordering)
Particle Size Range	50 μm to >6.4 mm (maximum size depends on probe resolution)
Number Conc. Range	0 - 2,000 particles/cm ³
Particle-by-particle Fall Velocity	5 - 500 cm/sec
Inter-arrival Time of Particles	0.001 - 100 sec
Communications	High-speed serial RS-422; USB
Software	Optional PADS software provides data analysis tools to display, record and play back data
Power Requirements	Powered by 115 V / 60 Hz or 230 V / 50 Hz (specify when ordering) Power consumption: 200 W