

Cloud Droplet Probe (CDP)



- Measures cloud particles in the range of 2-50 μm .
- Particle-sizing and concentration histograms of 20, 30, or 40-bin resolution.
- Light source: 660 nm, 50 mW diode laser.
- Sample area: 0.24 mm^2 .
- Collects forward-scattered light over angles of 4-12 degrees.
- Concentration range: 0-5,000 particles/ cm^3 .
- Airspeed range 1-200 m/s, altitude limit 50,000 ft.
- Signal-processing module outputs data through a standard RS-422 or RS-232 interface to DMT's PADS or other software.
- Software-selectable adjustable bin thresholds.
- Monitors 8 analog "housekeeping" parameters.
- Optional particle-by-particle feature provides precise sizing information and data on particle interarrival times.
- Dimensions: probe is 9.25" L x 6.0" W x 8.5" H; signal-processing module is 7" L x 3.25" W x 2" H, remotely mounted.
- Weight: 2.5 lbs. for sensor strut, 1.5 lbs. for electronics module.
- Power: <30 W at 28 VDC, plus 200 W for anti-ice heaters.
- System includes spectrometer, test cables, shipping case, one day of training at DMT's facility, and one-year warranty.

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