



CLOUD DROPLET PROBE (CDP)



SPECIFICATIONS:

- Measures cloud particles in the range of 2-50 μm
- Particle-sizing and concentration histograms of 20, 30, or 40-bin resolution
- Light source: 660nm, 50mW diode laser
- Sample area (DOF): 200 μm x 1.5mm
- Collects forward-scattered light over angles of 4-12 degrees
- Concentration range: 0-5,000 particles/cm³
- Airspeed range: 10-200m/s, altitude limit 50,000ft
- Signal-processing module outputs data through a standard RS-422 or RS-232 interface to DMT's PACS, PADS, or other software
- Adjustable bin thresholds, software selectable
- Monitors 8 analog "housekeeping" parameters
- Dimensions: Strut is 8.5" L x 4.675" H x 5.875" 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: less than 30W at 28VDC, plus 200W for anti-ice heaters
- System includes spectrometer, test cables, PACS software, shipping case, one day of training at DMT's facility, and one year warranty