

Single Particle Soot Photometer (SP2)



- Directly measures black carbon (soot) in individual aerosol particles.
- Nd: YAG intracavity laser induced particle incandescence.
- Single-particle scattering of non-absorbing particles.
- Two-color incandescence measurement of individual light-absorbing particles.
- Highly specific for black carbon (soot).
- Direct measurement of black carbon mass, spherical equivalent diameter derived from mass.
- Maximum number concentration = 5000 particles/cm³.
- Real-time data analysis including particle sizing and composition.
- Full data recording of each particle event response.
- Power consumption: 100 W for instrument, 200 W for pump.
- Powered by 115 V / 60 Hz or 230 V / 50 Hz (specify when ordering).
- Analytical system weight: 36 kg, excluding pump and data system.
- Suitable for airborne mounting in the aircraft cabin.
- Patent No. 5,920,388.
- System includes the analytical spectrometer, sample pump, data system, data collection software, basic data analysis software, one day of training at DMT's facility, and one-year warranty.

2545 Central Ave
Boulder, Colorado
80301-5727 USA
[P] 303.440.5576
[F] 303.440.1965



www.dropletmeasurement.com
info@dropletmeasurement.com