

# Dust Sentry Pro

## Real-Time Particulate Monitor

The Dust Sentry Pro is a real-time, 8-channel particle monitor for aerosol measuring and reporting in real-time, with 1-minute data intervals. An optical particle counter converts counts to mass fractions, including PM10, PM2.5, and PM1, along with TSP, using a proprietary algorithm.

Packaged in a weather-proof, lockable enclosure, this built-to-suit monitor is light enough for one-person site installations. Features an embedded PC and Aeroqual Cloud, a powerful cloud-based data management suite. Optional weather and chemical sensors are also available.

- ✓ Available for Rent or Sale
- ✓ World-Class Technical Support from CleanAir
- ✓ Full Inspection on Every CleanAir Rental
- ✓ Equipment Repair and Calibration Checks



Laser Particle Counter  
Weather Sensors (Optional)

TECHNICAL SPECIFICATIONS	
TARGET POLLUTANTS AND PARAMETERS	PM: 0.3, 0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 10 microns Weather (Opt.): wind, temp, RH, BP, noise, solar Chemicals (Opt.): NO2, O3, CO, H2S, SO2, VOCs
MEASURING RANGE	PM1 200 µg/m <sup>3</sup> PM2.5 2000 µg/m <sup>3</sup> PM10 5000 µg/m <sup>3</sup> TSP 5000 µg/m <sup>3</sup>
ACCURACY	<±(5 µg/m <sup>3</sup> + 15% of reading)
FLOW RATE	1.0 LPM
DETECTION LIMITS	LOWER 1 µg/m <sup>3</sup>
	COUNT RANGE 0-1000000 particles/L
COMMUNICATIONS	WIFI, Ethernet; Opt. Cellular: IP HSPA 4G
POWER	100-260 VAC: 24.7 W or 12 VDC: 27.2 W and Solar
ENVIRO TEMP RANGE	14 °F to 113 °F (-10 °C to +45 °C)
DIMENSIONS (INCHES)	19 H x 13 W x 7.4 D
WEIGHT	28.6 lb

## KEY FEATURES

- ▶ Measures real-time PM10, PM2.5, PM1, TSP
- ▶ Near-Reference correlation to EPA FRM PM
- ▶ Approved for Rule 1466 by SCAQMD, USA
- ▶ Aeroqual Cloud data storage and tool suite
- ▶ Remotely configure and diagnose networks
- ▶ Receive user-defined SMS/email alerts
- ▶ Robust, weather-proof, locking enclosure

## APPLICATIONS

- ▶ Air quality research
- ▶ Brownfields ESAs and clean-up
- ▶ Construction activities
- ▶ Quarry and mine operations
- ▶ Port and bulk handling terminals
- ▶ Waste management sites

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