

Rental – Aerosol Monitor Weatherproof Enclosure

TSI DustTrak® Environmental Enclosure

The DustTrak now has a weatherproof Environmental Enclosure accessory for making accurate and precise measurements outdoors. The Environmental Enclosure can be used in conjunction with the DustTrak for many different applications. While its primary use is in outdoor applications, the enclosure and extended-life battery may also be advantageous in indoor industrial applications to provide additional security and protection to the instrument.

FEATURES

- Sampling inlet specifically designed to sample efficiently in a broad range of wind conditions.
- Water trap that prevents precipitation from entering the instrument.
- Extended life, lead acid batteries included with the enclosure permit continuous, 24-hour operation.
- Two batteries are supplied with the unit, allowing one battery to be charged while the other is in operation.
- Rugged enclosure provides a secure method of storing and transporting the DustTrak and its accessories.

OPERATION

The Environmental Enclosure may be mounted to a standard surveyor tripod equipped with a 5/8"-11 threaded stud. The enclosure should be set up in a location where it can easily sample the particles of interest. It should be placed away from obstructions which may affect wind currents. The sampling inlet on the Environmental Enclosure samples most efficiently from 0 to 22 mph.



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MODEL 8520-1 SPECIFICATIONS

Sampling Conditions

Operating Temperature.....	32° to 120°F (0° to 50°C)
Wind Speed.....	0 to 22.5 mph (0 to 10 m/s)
Aerosol Concentration.....	0.001 to 100 mg/m ³ (Calibrated to Range ISO 12103-1, A1 test dust)

Storage Temperature -4° to 140°F (-20° to 60°C)

Zero Stability..... ±0.001 mg/m³ over 24 hours using 10-second time-constant

Particle Size Range 0.1 to approximately 10 micrometers (Upper limit is dependent on flow rate)

Flow Rate..... 1.7 L/min

Temperature Coefficient +0.001 mg/m³ per °C (for variations from temperature at which DustTrak was zeroed)

Physical

External Dimensions 16 in. x 13 in. x 7.5 in. (406 mm x 330 mm x 191 mm)

Weight (with battery and DustTrak)..... 15.8 lb (7.2 kg)

User Maintenance

Maintenance Check/Data Collection Recommended daily, but longer intervals allowed based on battery usage.

Clean Inlet Weekly, under normal conditions, or daily if concentrations are over 30 mg/cm³

Re-grease O-rings..... As needed

Power Requirements

External Battery Pack..... 6 VDC, 10 Ah

Battery Run-time 24 to 60 hours (typical)

Battery Charge Time 13 hours at 72°F (22°C) (New battery, deep discharge to 95% charge)

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