



® Knowledge Beyond Measure.

# DustTrak™ Aerosol Monitor Environmental Enclosure

Model 8535



Shown with DustTrak™ Aerosol Monitor  
(sold separately)

## Safeguard Your DustTrak™ Aerosol Monitor with the Environmental Enclosure 8535

The Environmental Enclosure 8535 is a robust and versatile solution for aerosol monitoring in the most challenging environments. Designed to protect DustTrak™ II and DRX Aerosol Monitor Models 8530, 8530EP, 8533 and 8533EP, this weatherproof polypropylene case offers adaptability through various setup configurations, making it an essential tool for those seeking precise measurements, no matter the setting. With a variety of add-ons designed to maintain data accuracy, reduce downtime and extend equipment life, the Environmental Enclosure 8535 caters to diverse monitoring needs. From harsh industrial worksites to outdoor pollution monitoring stations, this case ensures reliable measurements in a wide range of settings and conditions.

### Features and Benefits

- Engineered to confidently measure air quality even in the harshest of surroundings
- Omni-directional sampling inlet with extended rain cap ensures all-weather reliability and protects against moisture damage
- Survey tripod mount for equipment stability, precise positioning and hands-free operation
- Optional accessories for customizing a solution for specific monitoring challenges

### Applications

- Air quality monitoring for regulatory compliance
- Health and safety in industrial and construction settings
- Urban planning for informed development decisions
- Scientific research on air pollution and environmental health
- Environmental impact assessments
- Vehicle emission testing for pollution control
- Emergency response during environmental crises
- Portable air quality research for studies and surveys

### Optional Accessories

- Internal Battery System 801807 – Uses two 22 Ah lead acid batteries and battery charger with universal line cord to provide continuous power when dedicated AC power is not available, allowing 24/7 operation
- Solar Power System 801811 – A kit with two 90-Watt solar panels that work in conjunction with the internal battery system to aid in 24/7 operation when dedicated AC power is not available
- Heated Inlet Sample Conditioning Modules 801850 (with AutoZero) and 801851 (without AutoZero) – Helps overcome challenges posed by weather conditions by delivering air samples to the measurement instrument in a consistent and controlled manner
- Heat Shield 801810 – Shields the instrument from direct solar radiation, ensuring accuracy and longevity of the equipment it protects
- Surveyor's Tripod 854057 – Heavy-duty aluminum tripod with quick connection, extends up to 67 inches



## Specifications

# DustTrak™ Aerosol Monitor Environmental Enclosure Model 8535

### Environmental Enclosure 8535

Portable, polypropylene weatherproof case with survey tripod mount, 360 degree omni-directional sampling inlet with extended rain cap, water trap bottle, internal equipment bracket with Velcro straps, dust caps, sampling tubing, plugs, o-rings, weatherproof AC/DC power supply.

External Dimensions (H x W x D)	8.1 x 16.9 x 20.6 in. (21 x 43 x 52 cm)
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### Sampling Conditions for Omni-Directional Inlet

Wind Speed	0 to 22 mph (0 to 36 kph)
Operating Temperature	32 to 120°F (0 to 50°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)

### Internal Battery System 801807

Power Requirements	Internal Battery Pack	12 VDC, 22 Ah
Battery Run-time	DustTrak II/DRX with External Pump	21 - 24 hours (typical)
	DustTrak II/DRX EP & Heated Inlet	Approx. 15 hours
	Dual Battery Wiring Harness #801817, two 22Ah, battery packs #801808	Run-time is typically twice the time quoted for a single battery pack
Battery Charge Time	8-9 hours at 72°F (22°C)	(New battery, deep discharge to 95% charge)
Battery and Case Dimensions (H x W x D)	8.5 x 15.3 x 17 in. (22 x 39 x 43 cm)	

### Solar Power System

Includes: two 90-watt solar panels with stand, weatherproof 120 Amp-hr battery, charge regulator enclosure, charge regulator, ground mount, wiring harness and DC power cable.

Power Requirements	Solar System Run-time	Continuous (with adequate sunlight)
	Rated Power	80 x 2 watts
	Power Tolerance	±5%
	Nominal Voltage	12 volts
	External Battery Pack	12 VDC, 100 Ah
	Battery Run-time	90 to 120 hours (typical)
Operating Temperature	32 to 120°F (0 to 50°C)	
Storage Temperature	-4 to 140°F (-20 to 60°C)	
Solar Panel Dimension (H x W x D)	2 x 43 x 48 in. (5 x 109 x 122 cm)	
Solar Panel Weight	34 lb (15.3 kg)	

### Heated Inlet Sample Conditioning Modules 801850 (with AutoZero) and 801851 (without AutoZero)

Custom made to fit on DustTrak II/DRX in use with an Environmental Enclosure.  
Simple to connect. No programming required

Power Consumption	12 VDC, 13 watt
Operating Conditions	Indoor/outdoor use, Temperature 0 to 50°C (32 to 122°F), 2,000 m (6,561 ft.) Humidity: 5-95% Rh, non-condensing, Pollution degree II, Overvoltage degree II
Storage Temperature	-20 to 60°C (-4 to 140°F)
Dimensions	7.6 x 3.5 x 2.3 in. (19.3 x 8.9 x 5.8 cm)
Weight	Approx. 1 lb (454 g)
Warm-up Time	17 minutes
Settings	30%/40%/50% Rh



Shown with Surveyor's Tripod and Heat Shield (sold separately)

### Heat Shield 801810

Made of three separate layers of metal to allow air movement and dissipation of heat from thermal loading on the enclosure. Mounts directly to the top of the enclosure. Dimensions are 8.1 x 16.9 x 20.6 in. (21 x 43 x 52 cm) – same as the enclosure.

### Surveyor's Tripod 854057

Heavy duty aluminum tripod, 5/8"-11 threaded stud for mounting, extends to a maximum height of 67", adjustment range 3'-3" to 5'-3" (normal length).



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