



Thermo Scientific

## Thermo Scientific ADR1500 Area Dust Monitor

Pine Item #51352

### DESCRIPTION:

#### Coronavirus / COVID-19 FEATURED ITEM!

The Thermo Scientific Model ADR1500 Dust Monitor utilizes the highly sensitive light-scattering photometer (nephelometer) technology as used in the Thermo Scientific™ pDR series. The intensity of the light scattered by airborne particles passing through the sensing chamber is linearly proportional to their concentration. This optical configuration produces an optimal response to particles, providing continuous measurements of the concentrations of airborne particles for total particulate and cut-points ranging from PM10 down to PM1.

The ADR1500 incorporates a temperature and relative humidity (RH) sensor coupled with an internal heater to mitigate the positive bias with elevated ambient RH. Additionally, the flow control is truly volumetric and is maintained through digital feedback of the onboard barometric pressure sensor, temperature sensor and calibrated differential pressure across a precision orifice. The principles of true volumetric flow, as incorporated by the ADR1500, result in an accurate sample volume and precise particle cut-point.

### FEATURES:

- Volumetric flow control
- Modular optics and long-life primary HEPA filter for simple servicing
- Multiple power and communications capabilities
- Durable weather-proof IP65 enclosure
- Designed for ease of transport and installation

### APPLICATIONS:

- Environmental



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## Product Specifications

<b>Concentration measurement range</b>	e 0.001 to 400 mg/m <sup>3</sup> (auto-ranging)
<b>Flow rate</b>	1.1 × 10 <sup>-6</sup> to 0.6m <sup>-1</sup> (approximately) @ λ = 880nm
<b>Precision/Repeatability</b>	± 2% of reading or ± 0.005 mg/m <sup>3</sup> , whichever is larger, for 1-second averaging time
<b>Accuracy</b>	± 5% of reading (± precision) traceable to SAE fine test dust
<b>Resolution</b>	0.1 µg/m <sup>3</sup>
<b>Particle size range of maximum response</b>	0.1 to 10 µm
<b>Logged data</b>	Averaged concentrations, temperature, RH, barometric pressure, time/date, and data point number



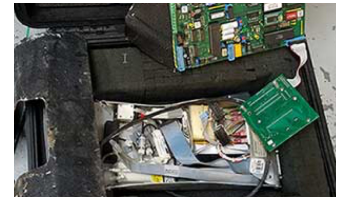
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Rental Protection Plan