



personal DataRAM™ pDR-1500 Aerosol Monitor



Provide real-time results and gravimetric validation with Thermo Scientific™ *personal* DataRAM™ pDR-1500 Aerosol Monitor, a personal aerosol instrument that offers benchtop performance. This fully integrated, active, volumetrically controlled personal sampling instrument offers greater precision, increased capabilities and decreased size and weight in an easy-to-use package.

Catalog #	Description
PDR1500	personalDataRAM pDR-1500 Aerosol Monitor
Accuracy	±5% of reading ± precision (traceable to SAE Fine Test Dust)
Aerodynamic Particle Cut-Point Range	1.0 to 10µm
Computer Requirements	IBM-PC compatible, 486 or higher, Windows 95 or higher, 8 MB memory, CD-ROM drive, VGA or higher resolution monitor
Concentration Display Averaging Time	1 to 60 seconds (user selectable)
Concentration Display Updating Interval	1 second
Concentration Measurement Range	0.001 to 400mg/m3 range (auto ranging) ¹
Data Logging Averaging Periods	1 second to 1 hour
Data Points	>500,000
Description	personalDataRAM pDR-1500 Aerosol Monitor
Flow Rate	1.0 to 3.5L/min.
Height (English)	7.1 in.
Height (Metric)	181mm
Depth (English)	3.3 in
Depth (Metric)	84 mm
Logged Data	Averaging concentration, temperature, RH, barometric pressure, time/date, and data point number
No. of Data Tags	99 (maximum)
Particle Size Range	0.1 to 10µm
Precision	±2% of reading or ±0.005 mg/m3, whichever is larger, for 1 second (2-sigma) ² averaging time, ±0.5% of reading or ±0.0015 mg/m3, whichever is larger, for 10 second averaging time, ±0.2% of reading or ±0.0005 mg/m3, whichever is larger, for 60 second averaging time
Resolution	0.1% of reading or 0.001 mg/m3, whichever is larger
Scattering Coefficient Range	1.5 x 10 ⁻⁶ to 0.6 m ⁻¹ (approx.) @ lambda= 880nm (not displayed)
Serial Interface	USB / RS-232, 19, 200 baud
Weight (English)	41 oz.
Weight (Metric)	1.2kg

Width (English)	5.6 in.
Width (Metric)	143mm
Item Description	personalDataRAM pDR1500
Certifications/Compliance	Suitable for NIOSH Methods 0500 and 0600. CE marked.

Product Description

Overview

From site remediation monitoring to health effects studies to construction/demolition projects, the pDR-1500 provides the power and flexibility to provide both real-time results and gravimetric validation. At 41 oz., it's as easy to wear it on the belt as it is to run it in a fixed location.

Capable of compensating for all typical environmental variables, the pDR-1500 is outfitted for relative humidity compensation, true volumetric flow, pressure compensation and legacy pDR nephelometry technology. The pDR-1500 aerosol monitor also features interchangeable cyclones for superior particle-cut points available for PM10 & PM4 or PM2.5 & PM1, as well as an integrated sample filter that enables post-gravimetric validation of all data.

Key Features:

- True volumetric flow control
- Full compensation for environmental variables
- Flexible data logging routine

Additional Information:

- Aerodynamic Particle Cut-Point Range 1.0 to 10µm
- Concentration Display Updating Interval : 1 second
- Data Logging Averaging Periods (user selectable): 1 second to 1 hour
- Total Number of Data Points in Memory: >500,000
- Number of Data Tags: 99 (maximum)
- Serial Interface: USB/RS-232, 19,200 baud
- Computer Requirements: PC compatible, 486 processor or higher; Windows™ 95 or higher

Recommended for:

- Site remediation
- Size discrimination
- Mass validation
- Exposure modeling
- Protection of asthma patients

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