



Micro Dustec - 500X

Realtime Dust Monitor & Particulate Counter

PM-10

PM-2.5

PM-1

Temperature
Humidity



Features:

- Dust Concentration in $\mu\text{g}/\text{m}^3$
- Particle counts with Avg, Min & Max values
- Temperature and Humidity measurement
- Data download in MicroSD Card. report saved in Excel format.
- ISO 21501-4 2007 calibration (*Optional)
- High performance Li-Ion battery with 8-24 hours backup
- Communication options - GPRS / RS-232 / RS-485

The Micro-Dustec 500X is the latest addition in the list of Environmental Monitoring Innovations by Instrumex. This is the most comprehensive dust monitoring solution that can measure dust particles as low as 0.3μ upto 10μ . Housed in an IP-65 protected case, this unit is capable for outdoor continuous monitoring. Extremely portable & Light weight unit ensures maximum mobility. Available in 3 different models - 5003, 5006 & 5008

Applications:

- Indoor / Outdoor Air Monitoring
- Clean Room Applications
- Environmental Monitoring
- Industrial Hygiene
- Workplace Exposure Monitoring
- Surveying & Research on Aerosols

Technical Specifications:

Measurement Principle	Optical Light Scattering using high intensity Class-1 Laser Diode
Dust Concentration Measuring Range	0.01 $\mu\text{g}/\text{m}^3$ to 10,000 $\mu\text{g}/\text{m}^3$
Size Channels	5003 – 3 Channels (1.0 μm , 2.5 μm , 10 μm) 5006 – 6 Channels (0.3 μm , 0.5 μm , 1 μm , 2.5 μm , 5 μm , 10 μm) 5008 – 8 Channels (0.3 μm , 0.5 μm , 0.7 μm , 1 μm , 2.5 μm , 4 μm , 5 μm , 10 μm)
Particle Size Range	0.3 μ to 10 μ
Particle Count Rate	10,000 Particles/Second
Temperature Sensor	Range: -20°C – 50°C. Sensor housed in a Radiant Shield.
Humidity Sensor	Range: 0 – 95%. Sensor housed in a Radiant Shield.
Total Flow Rate	1.2 LPM
Display	20 x 4 LCD Display
Data Logging	Inbuilt MicroSD Card to store Data. Logging Interval: 1 – 10 Seconds.
Communication (Optional)	RS485 & GPRS Modem for sending Real Time data online.
Calibration Certificate (Optional)	Particle Counter as ISO 21501-4 2007 Temperature & Humidity as per ISO 17025
Software Calibration	User Settable Calibration Factor to suit various Environmental Profiles
Power	230V, 50Hz AC Adapter with country Specific plug
Battery & Charger	Rechargeable Li-Ion with 8 Hour Run Time. (Optional 24 Hours Run time to be ordered separately) Charger – 110-240V AC, 50Hz – 5V, 3A DC.
Enclosure	IP65 Protected High Impact Plastic Suitable for outdoor application
Weight	2.2lbs (1kg.)
Dimensions	L x W x H = (24 x 20 x 11) cms
Supplied with	Operation Manual, 2GB MicroSD Card, Charger & Power Cord.
Optional	Tripod Stand with Tripod mounting adapter
Warranty	One year from the date of Supply.



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Solutions for Total Environmental Monitoring