Integrating Nephelometers Cura Terrae





Model IN102Ex

Particulate Characterization

With GRASP Inversion Software:

- PM 2.5 Particle Mass
- Size Distribution

Robust Low Power System for Remote Deployment

Fully Programmable Sampling By Time: - Hourly, Daily, Weekly

Remote Data Download & Sample Scheduling

Capabilities

- Forward and Back Scatter Measurements
- Three Wavelenghts
- High Speed fan
- Feedback Flow Control System
- Multiple Size Cuts







AirPhoton Nephelometers

Specifications

- Dimensions: 9" x 10" x 24"
- Mass: 6.8 Kg
- Operating temperature: -20 to +40°C
- Wavelengths: 450, 529, and 632 nm
- Angular range: 7° to 90°; 90° to 170°
- Full scattering = forward + back scattering
- Standard range: 0.0-3,000Mm⁻¹
- Extended range: 20,000Mm⁻¹(upon request)
- Lower detectable limit:
 - <0.15 Mm⁻¹ (at 60 sec AVG) Total Scattering
 - < 0.06 Mm⁻¹ for Backscattering (60 sec AVG)
- Clean air reference option provides automatic zero for span calibration
- Data Interfaces: SD card, RS485, USB, RS232

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Forward & Back Scatter Measurement	senghts	Fan	low em	e Bins	n size	by	
rward & satter Me	Three Wavelenghts	High Speed Fan	Feedback flow control system	Multiple Size Bins	Defermine Size Distribution	model	
58	£	ž	₾ 8	¥	Δ	Suggested use	
						INIOIT: Measurements of all particle sizes at normal ambient conditions as well as for situations where higher pressure intake is required – i.e. high altitudes, clean condition or long inlet tubes –.	
						IN102: High precision measurements for various size cut-offs under all conditions for air quality & health and climate applications.	
						INIO2Ex: High precision measurements for various size out-offs under all conditions for air quality & health and climate applications with ability to obtain size distribution.	

