Aeroqual Ranger™ | Dust

Specification Sheet

Cloud-connected portable dust monitoring solution

Aeroqual Ranger™ | Dust is a real-time, active-sampling monitor that provides simultaneous measurements of multiple particle fractions (PM_1, $PM_{2.5}$, PM_4, PM_{10}, TSP) in a connected, lightweight handheld solution with Cloud-based data visualizations.

Suitable for use on a range of projects, including industrial and occupational hygiene, environmental monitoring, personal exposure assessments, and indoor/outdoor air quality assessments.



What is it for?

- Occupational hygiene monitoring
- Personal exposure assessments
- Indoor air quality testing
- Ambient air quality monitoring
- Engineering control assessments
- Environmental impact assessments
- Measurement of multiple particle fractions:

PM_1 $PM_{2.5}$ PM_4 PM_{10} TSP

Who is it for?

- **Air quality professionals** who need real-time defensible measurements
- **Environmental health and safety professionals** who need to demonstrate safe environments
- **Industrial hygienists** who need a portable device
- **Indoor air quality professionals**
- **Building certifiers**

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Specifications | Aeroqual Ranger ™ | Dust

Measurement units	µg/m^3, °C or °F
Reading functions	Instant, minimum, maximum, average, sensor state, color-coded AQI display, Cal/OSHA
Sampling	Channels: PM_1, $PM_{2.5}$, PM_4, PM_{10}, TSP Method: Active Concentration range: 0 – 30.0 mg/m^3 Resolution: 0.001 mg/m^3 Minimum detectable, 50% eff: 0.3 µm Flow rate: 1l/min Measurement time: 1s
Field calibration	Types: Zero, Span
Factory calibration	Frequency: Annual, recommended Standard: ISO 12103 Downtime: 0 days
Environmental conditions and enclosure	Rating: IP20 Operational temperature: 0º to 40º C
Power	Charger: USB-C Battery life: 21h Battery type: Lithium Ion
Data storage	5 years on-board Unlimited on Ranger Cloud Log interval: 1min (minimum)
Data download	Ranger Cloud
Software	Ranger Cloud
Connectivity	Wi-Fi
Physical characteristics	Size: 25.5 x 10.0 x 4.2 cm Weight: 600g
EMC and Safety	IEC/EN 61326-1 EN 55011:2010 AS/NZS CISPR 11:2011 IEC/CISPR 11:Ed.5.1 FCC Part 15 IEC 61010-1:2010+A1:2016AU/NZ: AS 61010.1; Europe: EN 61010-1:2010 + A1:2019; Canada: CAN/CSA-C22.2 No. 61010-1-12 3rd Edition; USA: UL 61010-1 3rd Edition.

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