Aeroqual Ranger™

aeroqual
an Industrial Scientific company

Specification Sheet

Dust and Gas Measurement

Aeroqual Ranger™ is a real-time, active-sampling handheld monitor for professional users, with an incredible battery life. A simple, flexible, and cost-effective alternative to traditional monitors, the Ranger can be configured with a wide range of swappable sensor heads for particulate matter (PM) and gases. It is suitable for environmental, indoor air quality and industrial hygiene projects. Wi-Fi connectivity and cable data transfer included.



What is it for?

- Industrial hygiene assessments
- Indoor air quality testing
- Ambient air quality monitoring
- Perimeter monitoring
- Process monitoring

PM_1 $PM_{2.5}$ PM_{rsp} PM_{10} TSP VOC
SO2 O3 NO2 CO CO2 CH2O
NH3 Cl2 CH4 H2 NMHC C_2Cl_4

Who is it for?

- EnvironmentalConsultants
- Industrial Hygiene & EHS professionals
- Indoor Air Quality professionals & Building Certifiers
- Researchers & Scientists
- Community Air Quality Professionals
- Process Engineers

Specifications | Aeroqual Ranger™

Measurement units	PM: mg/m^3, $\mu g/m^3$ Gas: ppm, ppb, mg/m^3, $\mu g/m^3$
Displayed measurements	Instantaneous, 1-minute and 5-minute averaged concentration AQI for $PM_{2.5}$ (Cal/OSHA)
Field calibration	Gas sensors: Zero and Span PM sensor: Zero, Span and Flow
Factory calibration	Traceable certified calibration certificate valid for 1 year Hot-swap sensor option available. Hot swap is a factory calibration program that delivers a factory-calibrated sensor head to you without the hassle of sending your old one back (see Aeroqual distributor)
Environmental operating conditions and Ingress Protection	Temperature: -10ºC to 40ºC (14ºF to 104ºF) Humidity: 0 to 95% RH non-condensing IP Rating: IP20
Power	Battery type: Lithium Ion Battery life: >20 hours Charger connector: USB-C Recharge time: approximately 4.5 hours
Data logging	Storage: 5 years on-board Logging interval: 60 seconds
Software	Aeroqual Cloud for Ranger
Data connectivity	Wi-Fi, USB-C cable file download, Analogue 0-5v output
Physical characteristics	Size: 170 x 83 x 37 mm (6¾" x 3¼" x 1½") Weight: 430g (15 oz)
Compliance	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 RoHS 3 (EU 2015/863), REACH

Specifications are subject to change without notice.

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