



XD One Portable Dust Monitor

The XD ONE Portable Dust Monitor is a compact and robust mountable device which supports the real-time detection, warning and logging of hazardous particulate concentrations.

XD One is a lightweight, self-contained dust monitor which allows users to monitor and log dust levels in real-time. With no filters, pumps, tubes, or consumable parts, simply just switch it on and in 5 seconds you're ready to monitor for dangerous dust levels. The device allows for body-worn, locally mounted or fixed cab installation as required.

Designed for use in a range of applications and environments, the device is suitable for monitoring both indoor and outdoor particulate concentration and is built to sense both high and low concentrations accurately. Adaptive flow rate technology supports measurement accuracy in atmospheres with varying airflow ranges.

Ease of monitoring and warning is presented through the design of a simple user interface, LED status indications and high decibel audio alarm.

Features & Benefits

- ✓ On device audible and visual alarms – warns users in real time when recorded dust levels exceed predefined limits
- ✓ 16 hour battery life for ease of use
- ✓ On device data logging – allows dust exposures to be stored and analysed
- ✓ Custom Alarm Set Points – target the dust size* and type that you are most concerned about *PM1, PM2.5, PM4.25 and PM10

Key Applications

- ✓ Personal dust exposure monitoring
- ✓ Background dust monitoring levels on site
- ✓ Efficiency of filtration systems



[Request Price](#)



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Technical information	
Sensing Technology:	OPC light-scatter photometer
Particulate Measurement:	0.35µm – 40µm (PM1, PM2.5, PM4.25, PM10 and TSP) Custom Particle Density Profiling
Ambient Temperature Limits:	-10 to 45 °C
Humidity:	0 - 95% RH, non-condensing
Housing Material: Ingress	PC/ABS – Stainless Steel
Protection:	Main enclosure, dust and waterproof: IP54
Weight:	445g
Data Connections:	1 x Mini USB (Max Cable Length 2m)
Connectivity:	BreatheLITE Application
User Options:	STEL and TWA Alarm Set Points Latching Alarms Particulate Measurement
User Interface / Alarms:	Visual Icon Illumination (STEL, TWA, Battery Indication) Audible (85 dB)

Technical information continued	
Battery Capacity:	18.7 Wh Lithium Ion
Battery Run Time:	16hrs (Full Health at Ambient Temperature)
Charging Temperature Limits:	0°C to +45°C
Max Charge Current:	1.5A (Input Voltage 5V)
Product Fixing/Mounting:	Personal Mounting Clip, Klick Fast Stud, Pole Mount or Custom Bracket
Certification:	UKCA and CE Compliant

The Air XD ONE is supplied with alerts pre-set to the following limits:

- Size PM 4.25 (respirable fraction)
 - Short Term Exposure Limit (STEL) 10mg/m³ over 15 minutes
 - Time Weighted Average (TWA) 4mg/m³ over 8 hours
- These limits are based on paragraphs 43 and 64 of EH40:2020 Workplace Exposure Limits which is downloadable on the following link. <https://www.hse.gov.uk/pubns/books/eh40.htm>

It is the responsibility of the user to ensure that the limits are appropriate for their specific application and to adjust them if necessary.

The use of these monitors and the collection and analysis of data should be overseen by a suitably qualified health and safety professional or occupational hygienist. RVT Group can accept no liability for decisions or actions based on the use of the Monitex Air XD ONE dust monitor.

