

AIR XD REAL-TIME DUST MONITOR

Highly accurate particulate monitoring
for harsh environments

Mining, Tunnelling, Quarrying,
Aggregates, Raw Material
Processing, Construction,
Chemicals, Pigments,
Food Manufacturing,
Wood Processing, Metals



LAB-GRADE PRECISION FOR HARSH AND HAZARDOUS APPLICATIONS

The Trolex Air XD offers unparalleled accuracy and flexibility to provide you with the real-time data necessary to protect people, processes and the environment.

- Highly accurate measurement technology that brings lab-grade precision to a field-ready unit. Up to five times more accurate than comparable technologies.
- No pumps or filters for high reliability and ultra low maintenance, allowing the unit to work continuously in the most challenging environments.
- Site-specific configuration combined with highly detailed data analytics allows users to identify in real-time the hazard from dust and other airborne particulates, giving them the opportunity to take the best preventative action to protect both people and processes.
- The AIR XD is IECEx certified for Group I hazardous locations in underground mining and we also offer a general purpose version for use in industrial locations with non-explosive atmospheres.

A NEW GENERATION OF DUST MONITOR

The Air XD utilises a next generation Optical Particle Counter (OPC) to deliver dramatically improved accuracy and repeatability of measurement over a diverse range of Particulate Matter (PM) sizes.

With its advanced design, patented algorithm, dynamic flow, and multiple scatter angles, it delivers more valuable information than any other unit of its kind and now comes with full on-device configuration to give maximum flexibility and accuracy of results.

The insights gained from this rich data set provides multiple opportunities to better protect people, processes and the environment.

Its robustness in the most demanding applications is second to none, continuously providing highly accurate real-time data of dust and other airborne particulates no matter how dirty or challenging the environment.

PLUG AND PLAY

Installation of the Air XD could not be simpler; once mounted in position and power applied, the unit is switched on and after it has completed the system check it begins reading and logging data.

The Air XD can be quickly and easily configured using the keypad on the device giving you full flexibility and allowing you to rapidly respond to changing particulate conditions.

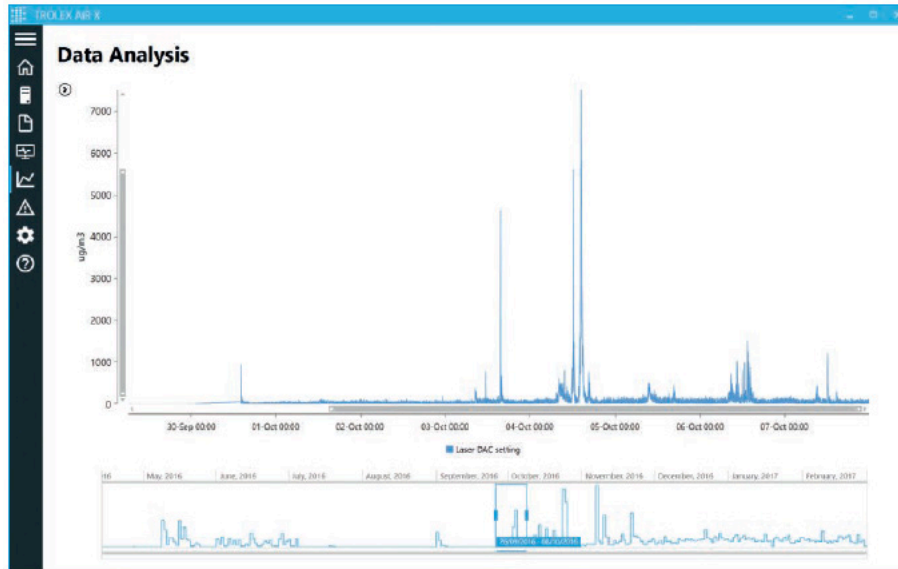


ANALYSING AND REPORTING

Collating, analysing and reporting data is essential for any instrumentation. Air XD makes this fast and easy both on-device and via simple and convenient application software.

View live readings, download historic data and output detailed graphs using the Air XD application software. Focus on areas of concern and see the detailed PM size composition.

Spot trends and gain insights on how best to protect your people, processes and the environment. Go beyond box-ticking to improve employee health, the working environment and operational efficiency.

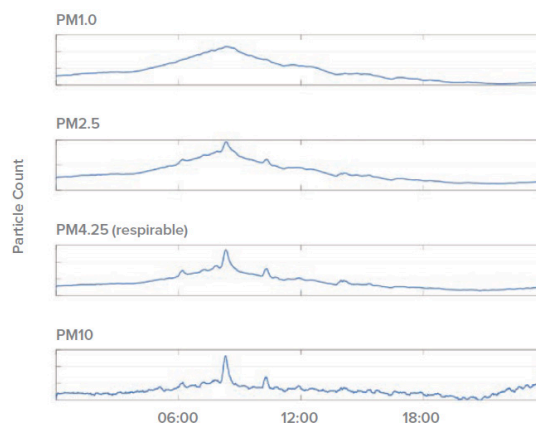


FOCUS ON ONE PM SIZE OR ALL OF THEM

Because the Air XD collects data on all particulates between $0.35\mu\text{m}$ and $40\mu\text{m}$, users can easily access detailed information about any PM size.

The Air XD unit allows simultaneous display of any combination of PM sizes required. Use of our application software allows detailed analysis of all measured particulates, offering advanced 3D graphing across the full size range.

Easily see how the composition of your dust changes over time to enquire your workforce has optimal protection.



TECHNICAL INFORMATION & DIMENSIONS

Measurement Range	0.1 µg/m ³ up to 1500 mg/m ³
PM Size Range	0.35 µm – 40 µm (including PM1.0, PM2.5, PM4.25, PM10, TSP)
PM Density Range	0.8 g/ml to 8 g/ml (default: 1.65 g/ml)
Averaging Period	1s - 24 hrs
Maximum Particle Count	10,000 per second
Accuracy	+/- 5%
Flow Rate	Dynamic (1.2 l/m nominal)
Humidity	95% (non-condensing)
Operating Temperature	-10 to 40°C
Relay Outputs	Two configurable (alarm outputs)
4-20 mA Outputs	Two configurable (real-time readings)
Display	128 x 64 dot matrix display with backlight
Buttons	Five navigation (membrane keypad)
Communications	RS485 data output with MODBUS protocol Ethernet
Power	100 V to 240 V ac 50/60 Hz 9 V to 30 V dc
Weight	7.1 kg
Data Storage	>10 years
Data Download	USB



Perth Office
+61 8 9456 1300
22-24 Wittenberg Drive, Canning Vale WA 6155

sales@tridentaustralia.com.au

Melbourne Office
+61 3 9585 1155
21 Shearson Crescent, Mentone VIC 3194

www.tridentaustralia.com.au

