

# AIRXD™

## DUST MONITORING



The AIRXD is a highly accurate, low-cost real-time dust monitor that enables users to maintain safe working conditions at all times, ensures that mandated Permitted Exposure Levels (PELs) are not exceeded. The units are simple, durable and lightweight and contain no moving parts or consumables. There are no filters or pumps and post-shift laboratory analysis is not required



**Industry leading accuracy**, low cost of ownership, diverse measurement range, no pump or filters, extensive in-built logging.

## THE FIRST OF ITS KIND

The new AirXD Dust Monitor allows you to instantly detect the precise content of respirable dust in the atmosphere so appropriate actions can be taken to stay safe and to ensure a fully protected environment from dust related health hazards.

The units are highly accurate (up to 5-times more accurate than the old technologies currently in use), and extremely rugged, and due to the unique low-cost design that requires no pumps or filters, they function well even in extreme environments with high humidity and dirty atmospheres.

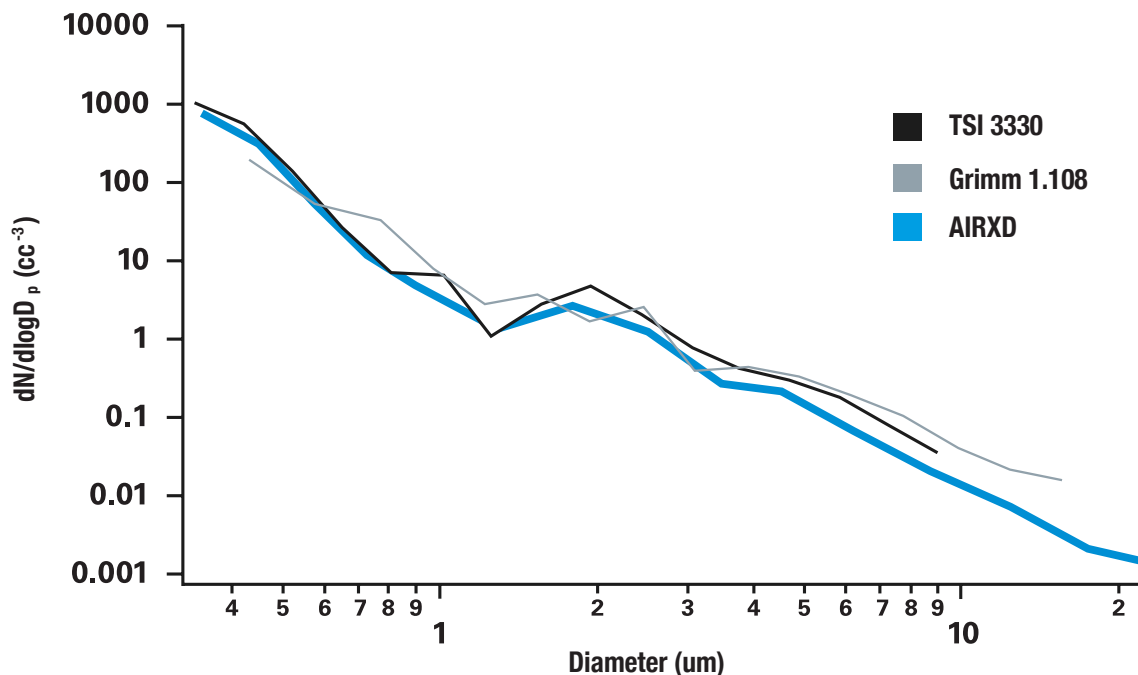
The patent-protected technology is the first of a new generation of dust monitors.

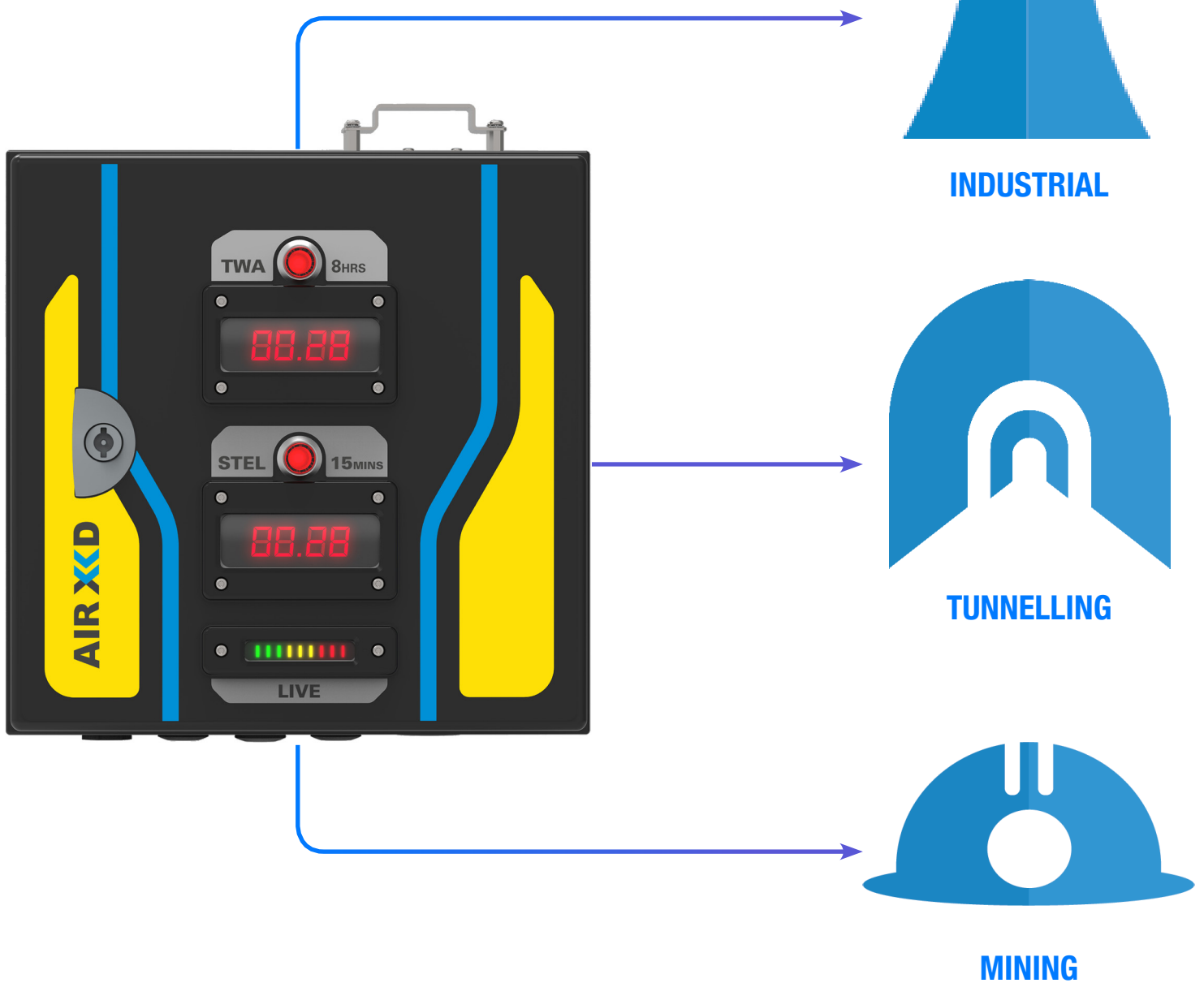
## REAL-TIME RESPIRABLE DUST MONITOR

Real-time accurate respirable dust levels are displayed on the unit screen and alarm points allow instant response to dangerous dust levels.

Accurate to within +/- 5%, the AirXD provides a reliable, convenient and easy-to-manage dust monitoring solution to hazardous industries.

### ACCURACY ANALYSIS OF RESPIRABLE DUST FRACTION





## APPLICATIONS

The AIRXKD's flexibility and functionality means that compliance with legislation to protect working personnel and the general public is made simple.

Applications such as general airborne dust measurement and PM size composition across all industries: mining, roadside/site wide monitoring; personnel protection; site boundary (in combination with other Trolex products) waste transfer stations; demolition and construction sites.

The instrument can form part of an advanced dust control strategy providing information on the correct timing for the deployment of safety equipment or dust suppression systems. This enables users to maximise efficient working processes, maintain safe working conditions and to ensure that permitted exposure levels (PELs) are never exceeded.

## FEATURES

- ✓ Instantaneous respirable dust level display
- ✓ 15 minutes and 8 hour TWA displays
- ✓ Accurate to within +/-5% compared to +/-25% of current industry standard models
- ✓ Open flow device - no pumps or filters required
- ✓ Expensive and time-consuming filter analysis not required
- ✓ In-built visual alarm, data-logging and RS485 communications
- ✓ Optional Wi-Fi communications
- ✓ Patented technology is a world-first

## BENEFIT

- ✓ Fully programmable alarm levels for live TWA
- ✓ STEL readings and data transfer made easy via 4-20mA
- ✓ Modbus
- ✓ no filters or pumps with the unit

## TECHNICAL DATA

|                                     |  |
|-------------------------------------|--|
| <b>Measurement Range:</b>           | 0-1500 mg/m <sup>3</sup>   |
| <b>PM size range:</b>               | 0.38 to 17.5 µm  |
| <b>Detection limits:</b>            | Minimum 0.1 µg/m <sup>3</sup><br>Maximum 1,500 mg/m <sup>3</sup> |
| <b>Max particle count rate/sec:</b> | 10,000   |
| <b>Accuracy:</b>                    | +/- 5%   |
| <b>Maintenance intervals:</b>       | Up to 24 months  |
| <b>Recalibration:</b>               | Every 24 to 36 months  |
| <b>Total Flow Rate:</b>             | (Typical) L/Min 1.2  |
| <b>Humidity range:</b>              | 0 to 95% rh (non-condensing)                                     |
| <b>Data storage:</b>                | Up to 20 years via SD card                                       |
| <b>Alarms:</b>                      | 2 off (programmable)   |



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