



# PRODUCT CATALOGUE



# Personal Dust Monitor

With the proven short-term and long-term health risks on workers exposed to dust, most notably respirable crystalline silica (RCS), it is time to use the most advance technology to measure dust exposures. With the development of small size laser scattering sensor, personal real time measurement of dust exposure is now possible.

DusTech introduce X2 the smallest, lightest, simultaneous measurement of PM2.5 and PM10 and on-site datalog retrieval function.

- The easiest and accurate way to measure dust exposure.
- PM2.5 and PM10.
- RCS mode.
- 16 hours runtime (approx..)
- 16 GB datalog storage.
- 315 grams in weight (approx.)
- 115 X 80 X 50 mm (approx.)
- Realtime measurement screen via smart device (WiFi).
- Datalog download via smart device (WiFi) for fast data retrieval.

## DusTech – X2



# ENVIRONMENTAL MONITORING

Environmental monitoring hardware provides the data to protect your workers and community from potentially harmful impacts of particles in the air. With data, you can make informed decisions to meet and exceed health and safety standards.

DusTech designs and manufactures instruments that monitor air quality and provides the visualisations you need to make sound decisions in your business or community.

## DUST AND AEROSOL MONITORING

Real-Time Dust Monitors  
Environmental Monitoring Systems  
Sensor Options  
Power Options

## DUST AND AEROSOL MONITORING

DusTech has designed and manufactures the DusTech XP Series of environmental monitors which focus on monitoring for particulate matter, volatile organic compounds and gases.

We have a modular approach to provide you with a sensor that suits your exact requirements for this project and the next. Our base configuration monitors PM2.5 and PM10 particles in the air, with a range of more than 15 add-on sensors it can be customized to your needs.

### REAL-TIME DUST MONITORS

The DusTech XP Series analyses contaminants in the air samples for dust, smoke, fumes and mists, giving you live readings displayed right on the screen.

This solution is suitable for indoor and outdoor settings, running on main power or solar, and easily deployed by one person in under 10 minutes.

#### Features

- Two fraction measurement of PM2.5 and PM10 + sensor option
- One Person Install
- Compact fixed monitor
- Under 8kg, monitor and power
- Under 25Kg with solar & battery
- 3-years onboard logging capability
- Remote monitoring via web dashboard
- Flexible dashboard design to suit each project

#### Applications

- Factory Air Quality Audits
- Indoor Air Monitoring
- Outdoor environment monitoring
- Remote Monitoring
- Clustered Monitoring
- Quarry / Mining

#### DusTech XPL

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- PM1.0, PM2.5, PM4.25, PM10, PM100
- Offline logger to MicroSD card in CSV Format
- Data Analysis in Excel\*
- Live LCD Display of Sensors
- Low cost indoor / outdoor
- Mains or Battery/Solar
- 1 additional sensor, see Sensor Options



#### DusTech XPi

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- PM1.0, PM2.5, PM4.25, PM10, PM100
- Offline Logging to MicroSD
- 4G / LTE Connected
- Web Dashboards for analysis
- Live LCD Display of sensors
- Mains or Battery/Solar
- 1 additional sensor, see Sensor Options



## ENVIRONMENTAL MONITORING SYSTEMS

DusTech XPS is our flagship particulate monitor, featuring the PM2.5 and PM10 as standard plus your choice of up to five additional gas sensors.

We have a modular approach to provide you with a sensor that suits your exact requirements for this project and the next. Our base configuration monitors PM2.5 and PM10 particles in the air, with a range of more than 15 add-on sensors it can be customized to your needs.

DusTech XPS is 3G / 4G or LTE connected to real-time sensor data from the device update every minute to easy secure online dashboards.

Featuring a built-in LCD screen to provide immediate in-field feedback. No more calls back to head office, just to find out if it's working yet.

Deployable by a single person in the field. Monitor and Tripod in 5 minutes and Full solar setup in under 15 minutes.

### DusTech XPS

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- PM2.5 & PM10 + 5 sensors
- Offline logger to MicroSD card in CSV Format
- Live LCD Display of all Sensors
- Mains or Battery/Solar Powered.
- Heated inlet with TSP head
- Humidity correction
- Over the air (OTA) K-factor correction (requires gravimetric sample data)
- Low maintenance requirement
- Simultaneous PM2.5 and PM10 measurement
- PM100 available with the purchase of the ES XP-12 module
- ModBus RTU via RJ12 port for integration
- Weather monitoring option
- Australian made Product

### Applications

- Mining
- Earth Moving
- Concrete Plants
- Construction sites
- Road-side monitoring
- Large area monitoring projects





## SENSOR OPTIONS

All DusTech XP models feature the option of an additional gas sensor (XPpro an additional five sensors)

The following sensors are currently available for implementation:

### Standard Sensor Range:

Measured in Parts Per Million

O<sub>2</sub> (Oxygen Sensor)

H<sub>2</sub>S (Hydrogen Sulfide Sensor)

CO (CO Sensor)

NO<sub>2</sub> (Nitrogen Dioxide Sensor)

CO<sub>2</sub> (Carbon Dioxide Sensor)

VOC (Volatile Organic Compounds Sensor)

SO<sub>2</sub> (Sulfur Dioxide Sensor)

NH<sub>3</sub> (Ammonia Sensor)

Cl (Chlorine Sensor)

WS (Weather Station)

O<sub>3</sub> (Ozone Sensor)

### Advanced Sensor Range:

Measured in Parts Per Billion

COL (CO Sensor : ppb)

H<sub>2</sub>SL (Hydrogen Sulfide Sensor : ppb)

NO<sub>2</sub>L (Nitrogen Dioxide Sensor : ppb)

CO<sub>2</sub>L (Carbon Dioxide Sensor : ppb)

SO<sub>2</sub>L (Sulfur Dioxide Sensor : ppb)

VOCL (Volatile Organic Compounds : ppb)

### Sensor Installation:

Sensors are either pre-installed in your monitor, or available for installation through DusTech direct or our partner network around Australia.

## POWER OPTIONS

The DusTech XP Series is designed with portability in mind, and as such has very low power requirements of under 30 watts. This makes it suitable for multiple power options.

We currently support the following power options;

### Mains Power (Default)

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- Standard 110 / 240V regulated power
- Rated at 60Watts
- Australia Plug, unless requested otherwise.



### Battery Only

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- Weather Proof Hard Case
- All internal cabling/fuses/regulators.
- Secure cable for powering XP Series
- 100Ah LiFePo4 Battery (Low weight, high capacity)
- 3-4 day runtime per charge
- Easy swap battery, for in field replacement.



### Solar / Battery Kit

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- Weather Proof Hard Case with wheels
- All internal cabling/fuses/regulators/charge controller.
- Secure cable for power, XP Series and Solar Panels
- 100Ah LiFePo4 Battery (Low weight, high capacity)
- 20+ day runtime in good light
- One person install



