

# XPS

## Multiparameter Air Quality Monitor

- Optical Particle Counter – PM1.0, PM2.5, PM4.25, PM10 & TSP
- Monitor up to 8 gases –
- CO, CO2, SO2, H2S, VOC, LEL, NO, NO2 and O2.
- Heat Stress
- Ambient weather monitor
- Wind Speed and Wind Direction
- Sound Pressure Monitor (noise)
- On-board touch screen for gravimetric correction factor entry, maintenance and calibration.
- On-board Audio and Visual Alarm
- 2 years of local datalogging
- Remote support via team-viewer



### APPLICATIONS

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

### OVERVIEW

The XPS Environmental Monitoring System includes PM2.5 and PM10 as standard, along with your choice of up to five additional gas sensors.

The XPS base setup monitors PM2.5 and PM10 particles in the air, with over 15 additional sensors available, and it can be customised to suit your needs. The XPS connects via 3G/4G or LTE to real-time sensor data from the device, updated every minute, making it easy to secure online dashboards.

Featuring a built-in LCD screen for instant in-field feedback. No need to call head office to check if it's working yet. Deployable by a single person in the field. Set up monitor and tripod in 5 minutes, and complete solar setup in under 15 minutes.

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[www.industrialhygienehub.com.au](http://www.industrialhygienehub.com.au)

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<b>Power Supply</b>	12 or 24 VDC
<b>Rated Power</b>	12 Watts
<b>Operating Temperature</b>	0°C to 50°C
<b>Operating Humidity</b>	0-95% non-condensing

<b>Particle Size Range</b>	PM1.0, PM2.5, PM4.25, PM10 & TSP
<b>Size categorisation (Standard)</b>	0.35 to 40 um (RI of 1.5 +io) at 24 software bins
<b>Sample flow rate</b>	1.2L/min nominal
<b>Max particle count rate</b>	10,000 count/sec
<b>Detection Limit</b>	1 ug/m3
<b>Detection range</b>	0 - 30000 ug/m3
<b>Sampling frequency</b>	1 seconds
<b>Particle density value</b>	1.65 g/ml

Gas	Range	Resolution	T90 (s)
CO	0-1000 ppm	1	<25
H2S	0-200 ppm	1	<55
O2	0-25% Vol	0.1	<13
CO2	0 - 5% Vol	10	<40
NO2	0 20 ppm	0.1	<60
NO	0-20 ppm	1	<25
SO2	0-100 ppm	1	<60
LEL	0-100% LEL	1	<12
VOC	0-1000 ppm	1	<30

Parameter	Range	Resolution	Accuracy
Wind Speed	0-60 m/s	0.01 m/s	±0.3m/s
Direction	0-360°	0.1 °	±2°
Temperature	-40 to 60 °C	0.01 °C	±0.3 °C
Humidity	0-100% RH	0.01%	±3% RH
Pressure	300 - 1100 hPa	0.1 hPa	±0.5 hPa
Globe Temperature	0 - 60 °C	0.1 °	±2°

<b>Range</b>	30-130 dB (A)
<b>Resolution</b>	0.1 dB
<b>Sensitivity</b>	12.6mV/Pa
<b>Microphone</b>	1/2 Inch
<b>Directivity</b>	Omnibearing

<b>Connectivity</b>	
<b>SCADA Integration</b>	MODBUS TCP/IP, MODBUS - RTU
<b>Upload</b>	Cellular, WiFi and Ethernet
<b>Upload Protocol</b>	FTP, MQTT, MQTTS

## DASHBOARD

Connectivity – Cellular, WiFi and Ethernet

Data Transfer Protocol – FTP, MQTT, MQTTs

Upload interval – 1 minute to Eagle.io Server or Customer Server

Hierarchical User Management, three (3) classification of alerts via SMS and/or e-mails, data download and automatic report generation using Dustech Dashboard.

\*\*\* Dustech Dashboard – Access via subscriptions.



## ENCLOSURE DIMENSIONS

