Dustech XPi
Multiparameter monitor

XPi - FEATURES

- ✓ **Laser Scattering – PM1.0, PM2.5, PM4.25, PM10 & TSP**
- ✓ **Monitor 1 gas CO or VOC or NO2**
- ✓ **Heat Stress**
- ✓ **Ambient weather monitor**
- ✓ **Wind Speed and Wind Direction**
- ✓ **Sound Pressure Monitor (noise)**
- ✓ **On-board display**
- ✓ **2 years of local datalogging**
- ✓ **Remote support via team-viewer**

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.

TECHNICAL SPECIFICATIONS

Power Supply	12 VDC
Rated Power	8 Watts
Operating Temperature	0°C to 50°C
Operating Humidity	0-95% non-condensing

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

Gas	Range	Resolution	T90 (s)
CO	0-1000 ppm	1	<25
NO2	0 20 ppm	0.1	<60
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°

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

CONNECTIVITY	
SCADA integration	MODBUS TCP/IP, MODBUS - RTU
Upload	Cellular, WiFi and Ethernet
Upload Protocol	FTP, MQTT, MQTTs

Solar / Battery Kit

Weatherproof 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)
One person install.

Enclosure Dimension