

Surveyor XP40

Optical Particle Counter

- Displays mass concentration and counts / litre
- Optional Particle Counter - PM1.0, PM2.5, PM4.25, PM10 and TSP
- 5 aerodynamic size simultaneous measurement
- Particle count bin display >0.3um, >0.5um, >1.0um, >2.5um, >5.0um
- 2 years of local datalogging
- Lightweight – 495g
- Long Runtime – 15 hours typical
- Cloud-ready
- On-board webserver for local data download



APPLICATIONS

- Ambient air quality monitoring
- Environmental assessments
- Mining and quarries
- Construction site monitoring
- Roadside monitoring

OVERVIEW

The Surveyor XP40 Dust Monitor is a powerful, portable instrument designed for real-time spot measurement of airborne dust and particulate emissions. Capable of detecting particles from 0.3 μm to 40 μm , the Surveyor XP40 provides accurate measurement of mass concentration and particle counts, making it an ideal solution for environmental monitoring and industrial dust assessments.

Engineered for demanding field environments, the Surveyor XP40 measures dust concentrations up to 30,000 $\mu\text{g}/\text{m}^3$, enabling reliable monitoring even in high-dust applications such as mining, construction, and roadside monitoring. Alongside mass concentration, the instrument simultaneously displays particle counts per litre (#/L), providing deeper insight into airborne particle behaviour and exposure levels.

Designed for portability and ease of deployment, the instrument weighs just 495 g and offers a typical runtime of up to 15 hours, allowing extended field use without interruption. Built-in connectivity features including a cloud-ready platform and onboard web server allow users to easily download and analyse data locally or remotely.

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Power Supply	5 VDC
Rated Current	600 mAmps
Operating Temperature	0°C to 60°C
Operating Humidity	0-95% non-condensing

Particle Size Range	PM1.0, PM2.5, PM4.25, PM10 & TSP
Size categorisation (Standard)	0.30 to 40 um (R1 of 1.5 +io) at 6 software bins
Sample flow rate	1.0L/min nominal
Max particle count rate	10,000 count/sec
Detection Limit	1 ug/m3
Detection range	0 - 30000 ug/m3
Sampling frequency	1 second
Particle count bin	>0.3 um, >0.5 um, >1.0 um, >2.5 um, >5.0 um
Datalog	400 million+ datalog capacity
Runtime	15 hours (approx.)
Weight	495 g (approx.)

Connectivity	
Upload	WiFi and Hotspot
Upload Protocol	MQTT
Local Connection	WiFi - Webserver

DASHBOARD

Connectivity – WiFi or Hotspots

Data Transfer Protocol – MQTT

Upload interval – 1 minute to Dustech.Live or Customer Server

Hierarchical User Management, email alerts, data download

*** Dustech Dashboard – Access via

