

# XPL DL5P

## Multiparameter Monitor

- Optical Particle Counter– PM1.0, PM2.5, PM4.25, PM10 & TSP
- TWA [8hr] Display
- 5 aerodynamic size simultaneous measurement
- Particle count bin display
  - >0.3 um pcs/L
  - >0.5 um pcs/L
  - >1.0 um pcs/L
  - >2.5 um pcs/L
  - >5.0 um pcs/L
- 2 years of local datalogging
- Cloud-ready
- On-Board beacon alarm
- On-Board web server for local data download



### APPLICATIONS

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

### OVERVIEW

The XPL DL5P is a stand-alone area dust and particulate monitor designed for continuous real-time environmental and workplace particulate measurement. It simultaneously displays and records multiple mass concentration channels — PM1.0, PM2.5, PM4.25, PM10 and Total Suspended Particulates (TSP) — along with particle count bins (e.g., >0.3 µm, >0.5 µm, >1.0 µm, >2.5 µm and >5.0 µm), enabling broad particulate characterisation across a range of particle sizes.

Designed as a fixed or mounted area monitor, the XPL DL5P features a time-weighted average (TWA) display, comprehensive onboard datalogging, and smart device connectivity for data download and setup. It includes an on-board alarm beacon that activates when thresholds are exceeded and is cloud-ready for integration with the Dustech live monitoring platform. The unit supports wall or pole mounting and is powered through an IP66-rated plug pack, making it suitable for continuous outdoor or indoor monitoring where dust exposure and air quality are concerns.

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<b>Power</b>	12 VDC
<b>Rated Power</b>	8 Watts
<b>Operating Temperature</b>	0oC to 50oC
<b>Operating Humidity</b>	0-95% non-condensing

<b>Enclosure size</b>	240 x 160 x 100 mm
<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 6 software bins
<b>Sample flow rate</b>	1.0 L/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 Count Bin</b>	>0.3 um, >0.5 um, >1.0 um, >2.5 um, >5.0 um
<b>TWA measurement respirable</b>	TWA[8rh]
<b>Datalog</b>	400 million+ datalog capacity
<b>On-Board Alarm</b>	Coloured Beacon

<b>Connectivity</b>	
<b>Upload</b>	WiFi and Hotspot
<b>Upload Protocol</b>	MQTT
<b>Local connection</b>	WiFi - Webserver

## DASHBOARD

Connectivity – WiFi or Hotspots Data Transfer Protocol – MQTT

Upload interval – 1 minute to Dustech.Live or Customer Server  
Hierarchical User Management, e-mails alerts, data download.

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



## ENCLOSURE DIMENSIONS

