



XPL DL5P Dust Monitor

Quick Start Guide

Version 3.2 30012026

Technical specifications

Power Supply	12 VDC
Rated Power	8 Watts
Operating Temperature	0°C to 50°C
Operating Humidity	0-95% non-condensing
Enclosure size	240 x 160 x 100 mm

Particle Size Range	PM1.0, PM2.5, PM4.25, PM10 & TSP
Size categorisation (Standard)	0.35 to 40 µm (RI of 1.5 +io) at 6 software bins
Sample flow rate	1.0 L/min nominal
Max particle count rate	10,000 count/sec
Detection Limit	1 µg/m ³
Detection range	0 - 30000 µg/m ³
Sampling frequency	1 seconds
Particle Count Bin	>0.3 µm, >0.5 µm, >1.0 µm, >2.5 µm, >5.0 µm
TWA measurement respirable	TWA[8rh]
Datalog	400 million+ datalog capacity
On-Board Alarm	Coloured Beacon

CONNECTIVITY

Upload	WiFi and Hotspot
Upload Protocol	MQTT
Local connection	WiFi - Webserver



Monitor aerodynamic size selective but non-material selective.

Power button – Press button to turn ON the device.

M Button – To switch display mode. Mass concentration, TWA [8Hr] or count (pcs/L).

C Button – To switch device network function. Local Webserver or Cloud connected via WiFi Network.

Alarm Indication – **Screen Will Turn RED** will blink when the unit reading reaches the set Threshold Limit Value (TLV). For setting the TLV values please refer to section ***ALARM SETUP***.

Light beacon will also turn on when the monitor reaches TLV setting.

12 volts plug pack power supply – Connect the amphenol male connector to the instrument female connector located at the bottom of the instrument. This will also charge the small lithium-ion battery inside the unit that maintain the clock and date of the instrument.

Caution – Please use only the supplied plug pack.

CONNECTION TO SMART DEVICE – XP Personal Dust Monitor comes with an embedded application that enables it to connect to smart device using **Wi Fi**.

Network Name is ***XPL - serial number***.

Wi Fi password is the ***serial number***.

Application (Server) ip address is 10.10.10.10

Supported browser – Safari, Chrome, and Edge.

Wi Fi will turn off after 8 minutes.

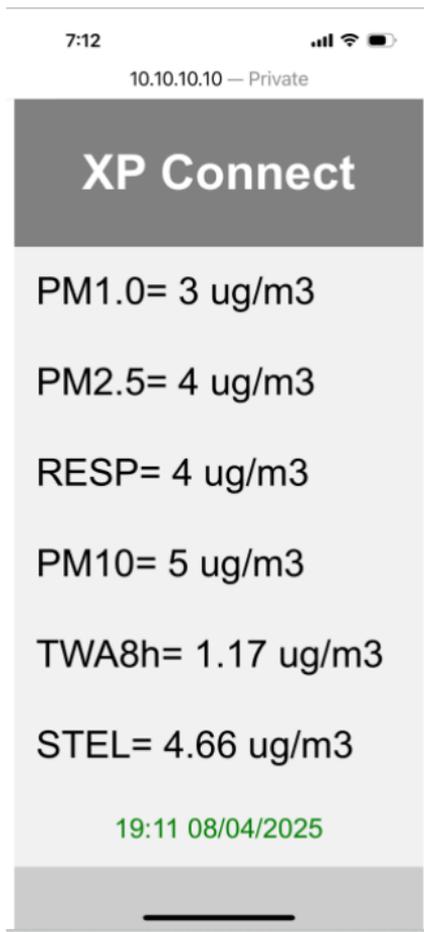
Press C Button Momentarily will turn ON the Wi Fi

Note: Application is customized for smart mobile devices.

REAL TIME READING

Connect a Smart Phone or PC via the Wi Fi with credential on the previous section.

Open a browser and enter 10.10.10.10 on the browser URL area. **XP Connect** will now be displayed on your browser.



MODE MENU – specific for silica exposure measurement, the function uses the SDS of the material (e.g., engineered stone) to realistically estimate silica dust exposure.

External Power Supply – ON/OFF

Screen – ON/OFF

FastLog – ON/OFF

TWA Dial Gauge – ON/OFF

*TWA[8hr] – Display Time
Weighted 8 hours
exposure in real-time.*

The screenshot shows the XP Connect mobile application interface. At the top, the status bar displays the time 7:12, signal strength, Wi-Fi, and battery icons. Below the status bar, the IP address 10.10.10.10 and the word 'Private' are visible. The main header is a dark grey bar with the text 'XP Connect' in white. Below the header, the section is titled 'RCS MODE' and contains the text 'Utilizing the SDS of the Stone RCS correction can be set below:'. There are two settings for 'SDS CorFactor': the first is 'SDS CorFactor set@ 100.0%' with a text input field containing '100.0%' and a blue 'SET' button below it; the second is 'CorFactor: 100.0:100 AZ Dust' with a text input field containing '100.0' and a blue 'SET' button to its right. At the bottom, there is a setting 'Enable USB Power: 0' with a text input field containing '0' and a blue 'SET' button to its right.

TIME SETUP – as default unit will be shipped Australian Eastern Standard Time (AEST). Make sure to setup time properly prior initial use.

7:12 10.10.10.10 — Private

XP Connect

HOUR= SET

MINUTE= SET

SECOND= SET

YEAR= SET

MONTH= SET

DAY= SET

ALARM SETUP – DusTech XP Personal Monitor have the capability of setting TLVs. Instantaneous alarms for Respirable and PM10 and STEL and TWA alarms.

7:12 10.10.10.10 — Private

XP Connect

Alarm set at: RESP=50 & PM10=180
STEL=50.0 & TWA8h=50.0

Set RESP Alarm:

SET

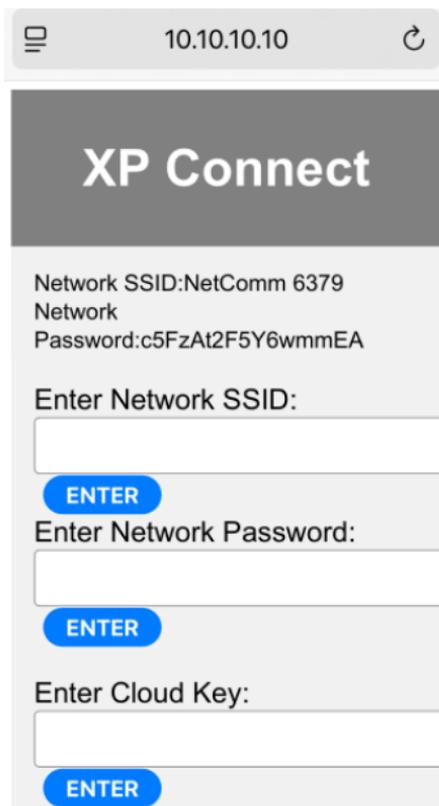
Set PM10 Alarm:

SET

Set RESP STEL Alarm:

Net Option – Cloud connectivity setup. XP can use cellphone hotspot or site WiFi as gateway to upload measurement in real-time.

**Subscription required to generate Cloud Key



10.10.10.10

XP Connect

Network SSID: NetComm 6379 Network
Password: c5FzAt2F5Y6wmmEA

Enter Network SSID:

ENTER

Enter Network Password:

ENTER

Enter Cloud Key:

ENTER

Connection Indicators

WiFi text will appear on the screen, if connection is successful the text is **GREEN**, otherwise it will be blinking **RED**.



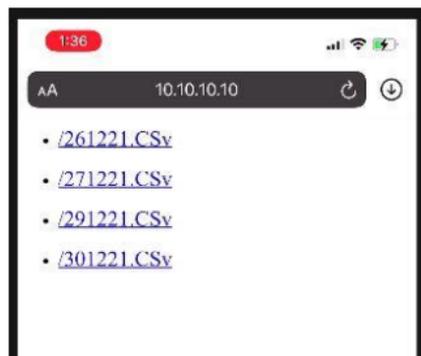
Connection Indicators

A **GREEN** arrow (->), will appear in the screen, when the unit successfully upload data to the dustech.live server.



DOWNLOADING

DATALOG – Immediate download of the datalog using smart device or PC. Logs are in CSV format and can be easily graphed using excel.



Warranty

Dustech Pty Ltd warrants that all products are free from defects in materials and workmanship under normal use for a period of 12 months from the date of purchase. During this period, Dustech will, at its option, repair or replace any defective product at no charge for labour or materials. This warranty does not cover damage caused by improper installation, misuse, or unauthorized modifications.

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