



XP Personal Dust Monitor

Quick Start Guide

Version 3.32 03072026

Power	Lithium Ion Battery 3.7V
Charger**	5V 1AMP
Operating Temperature	0°C to 60°C
Operating Humidity	0-95% non-condensing

** Please use supplied charger

Run time	12+ hours typical
Cloud Connectivity	Cloud ready
Wi-Fi	802.11 b/g/n
Memory capacity	400 million+ datalog
Display	2.4 inch TFT display
Datalog file format	CSV
Datalog file grouping	Daily
Datalog retrieval	Webserver - Smart Device or PC
Noise @ 1 Meter	25 dB (A) Max

Laser Sensor Specification

Measured particle size	0.3µm - 10µm
Measurement range	0-5000µm/m ³
Sampling method	Fan Driven
Acoustic emission level (.2m)	25 dB(A)



Monitor is indicative and non-material selective.

ON/OFF button – Click the POWER button to turn ON the device.

Long press button while on operation mode till it displays OFF to shut-down the device.

R - button will scroll device other display and function.

L – Button is reserved for future function

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**.

Battery Power - **GREEN Battery Icon** full green up to 11 hours run time, ½ bar 6 hours runtime, 1/3 bar up to 2 hours runs time.

Empty Battery Icon will illuminate, with approximately 30 minutes of runtime.

External Power and Charging – Connect USB C wall charger, instrument will go to charging mode. Battery Icon will be displayed.

Caution – For best charging result only use the supplied USB charger.

******If device failed to display the charging screen, press the POWER Button momentarily (watchdog reset).***

There are three (3) buttons on the device. Power button, Left and button.

Right button – Click to change from real time reading to TWA [8hr] reading in mg/m³. This button will also change the access mode for the device. WebServer ON displayed on the screen will allow access to the internal web server menu. Cloud ON will allow the unit to connect to a WiFi and upload data via MQTT (subscription required).

Left hidden – reserved for future function.

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 *XPP - 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*.

Pressing the Power Button Momentarily will turn **ON the Wi Fi**

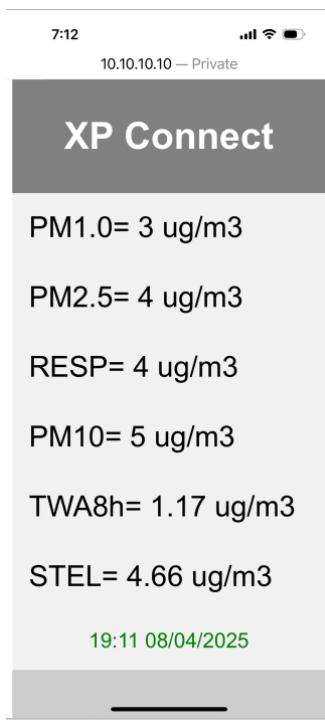
When connected to the webserver, real time reading and other options will be available via the smart device (e.g. Alarm Setup, etc.)

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.*

*Note: TWA[8Hr] – can also
Be displayed using the
RIGHT Hidden Button.*

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 text '10.10.10.10 — Private' is 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:'. The first setting is 'SDS CorFactor set@ 100.0%', followed by 'SDS CorFactor:' and a text input field. Below the input field is a blue button labeled 'SET'. The next setting is 'CorFactor: 100.0:100 AZ Dust', followed by 'CorFactor:' and a text input field, with a blue button labeled 'SET' to its right. The final setting is 'Enable USB Power: 0', followed by 'Enable:' and a text input field, with a blue button labeled 'SET' to its right. A horizontal line is visible at the bottom of the screen.

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

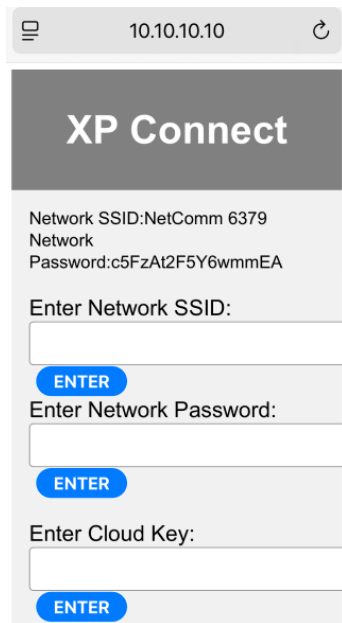
Set PM10 Alarm:

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.

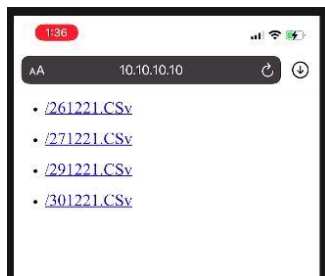
****Subscription**
required to generate
Cloud Key



The screenshot shows a web browser interface with the address bar displaying '10.10.10.10'. The main heading is 'XP Connect'. Below the heading, the network configuration details are listed: 'Network SSID: NetComm 6379', 'Network', and 'Password: c5FzAt2F5Y6wmmEA'. There are three input sections, each with a label and a text input field, followed by a blue 'ENTER' button. The first section is for 'Enter Network SSID:', the second for 'Enter Network Password:', and the third for 'Enter Cloud Key:'.

DOWNLOADING

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



Connection Indicators

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

Connection Indicators

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

Right Button

Click Right button will change the screen from mass concentration reading to TWA[8h] dial gauge reading.

Using the Right button will also activate the wi-fi and change mode from webserver to cloud connection.

Left Button

Left button is reserved for future function/option.

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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