



# Surveyor XP40

## Quick Start Guide

Version 3.2 01012026

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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
Enclosure size	230 x 110 x 70 mm

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**\*\* Please use supplied charger**

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Particle Size Range	PM1.0, PM2.5, PM4.25, PM10 & TSP
Size categorisation (Standard)	0.30 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 <sup>3</sup>
Detection range	0 - 30000 µg/m <sup>3</sup>
Sampling frequency	1 seconds
Particle Count Bin	>0.3 µm, >0.5 µm, >1.0 µm, >2.5 µm, >5.0 µm
Datalog	400 million+ datalog capacity
Runtime	13 hours
Weight	495 g

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#### CONNECTIVITY

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

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Monitor is non-material selective.

**POWER button** – Press button to turn ON the device. ***\*\*\*If device failed to turn ON press the TWO HIDDEN BUTTONS momentarily (watchdog reset) and then Press the POWER button.***

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

Mode Button (M) will toggle between display type – mass concentration, TWA, and counts per liter. Webserver and CLOUD Mode can also be toggled using the M button.

**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 17 hours run time, ½ bar 10 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.

**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 **SVR - 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.*

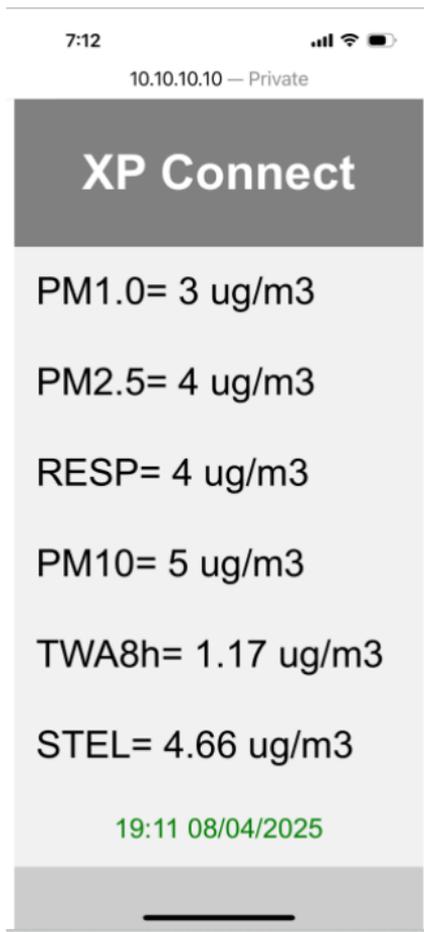
**Pressing the Power Button Momentarily will turn ON the Wi Fi**

*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.

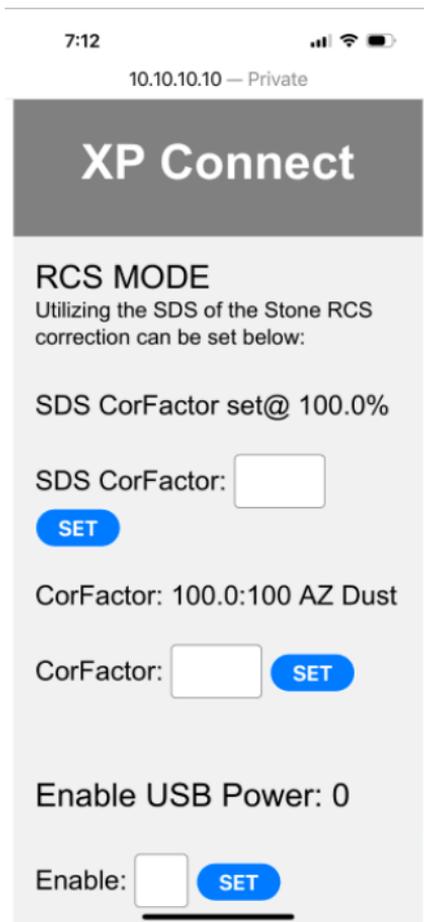
External Power Supply – ON/OFF

Screen – ON/OFF

FastLog – ON/OFF

TWA Dial Gauge – ON/OFF

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



**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

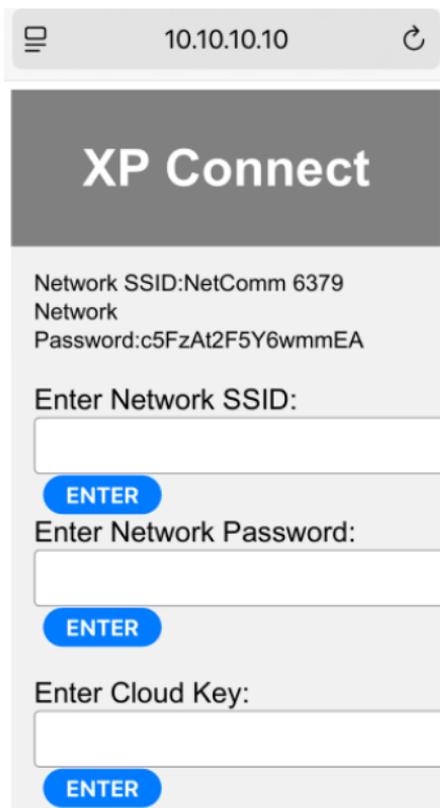
Set PM10 Alarm:

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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