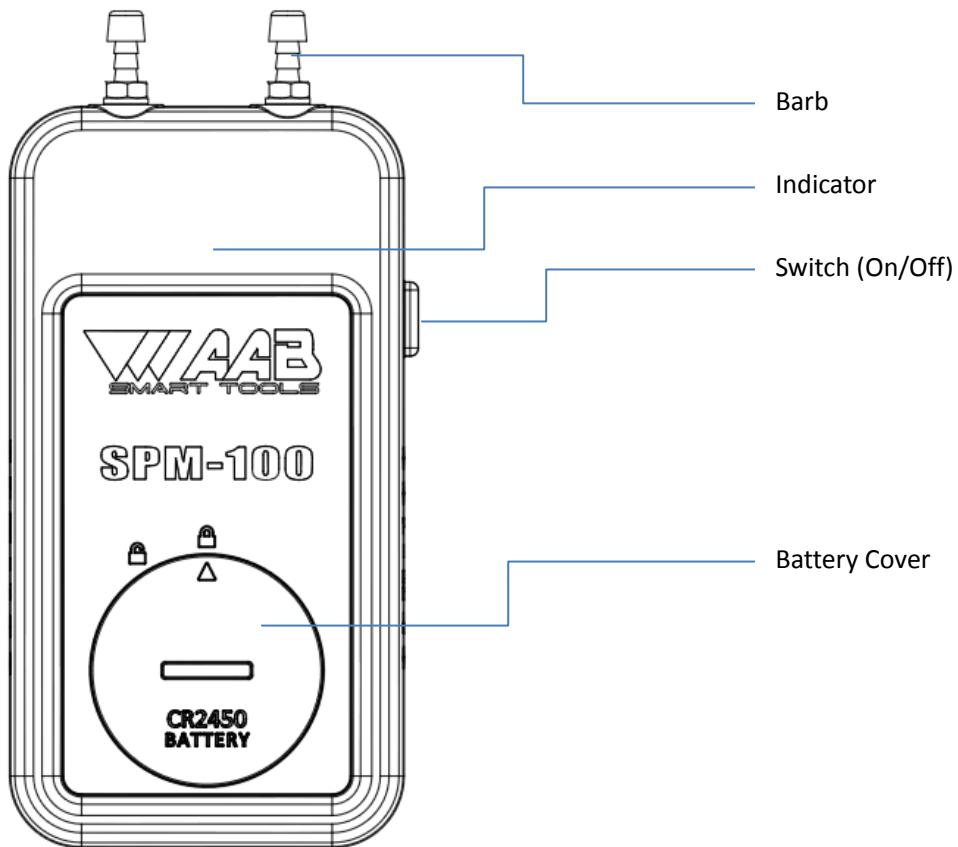


SMARTPHONE STATIC PRESSURE METER MANOMETER

INSTUCTION MANUAL

SPM-100



PRECAUTIONS

Before using this product, carefully read this manual and retain it for future reference.

Safety

Observe all warnings, precautions and instructions.

CHOKING HAZARD - Small parts. Keep out of the reach of small children.

Use and handling

Do not expose the SPM-100 to high temperatures, high humidity or direct sunlight.

Do not put heavy objects on the SPM-100.

Do not allow liquid or small particles to get into the SPM-100.

Do not throw or drop the SPM-100 or subject it to strong physical shock.

Do not place any rubber or vinyl materials on the SPM-100 exterior for an extended period of time.

Use a soft, dry cloth to clean the SPM-100. Do not use solvents or other chemicals. Do not wipe with a chemically treated cleaning cloth.

Do not disassemble or insert anything into the SPM-100 because this may cause damage to the internal components or cause injury to you.

Observe all signs and instructions that require an electrical device or radio product to be

switched off in designated areas, such as gas/refueling stations, hospitals, blasting areas, potentially explosive atmospheres or aircraft.

The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 60°C / 140°F, or incinerate.

FCC statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Preparing

APP Download and install

Get the SPM (AAB) APP on the App Store, and install on a iOS device

Battery installation

Insert the battery cell into the battery compartment and secure the cover.

App Overview

You can move the main screen to right to show the Features, Help & Support for SPM-100

Features

Take a reading, Start the reading here

Settings, you can set the company information here and units

General information

- 1) Company, input your company name and click OK to save.
- 2) Email, input your email address and click Ok to save

Units Setting

- 3) Units, Standard / Metric
- 4) Pressure units, mmWC / mmHg / Pa / kPa / mBar
- 5) Velocity Units, ft/min for Standard, m/s for metric
- 6) Volume Units, ft³ for Standard, m³/s for metric

Help & Support

Support, You can search any support via website here.

Product Training, You can start how to use the Static Pressure Meter via the website.

Update software, You can update the software over the air here.

Registering (Pairing) the SPM-100 with your other Bluetooth devices.

Page Instrument Status

Power on the SPM-100, the LED will blink 1 per second, click connect device to Page

Device.

- Action
- Cancel
- Devices found

Devices name SPM-002_Baro_Sensor

Please select the device and it will complete the pairing.

Take a Reading

Once the device is connected, the APP will show the SPM-100 connected. You can tap the “Take a Reading” to begin.

Location information

Set location

You can tap “ Set Location” to input the location information. And click “OK” to save the location information.

Other

Before you start the reading, you will need to finish the other setting.

- Calibrate, calibrate the sensor and reading, set the current pressure as default(0).
- Sampling Average, set the sampling time, default is 30 seconds.
- Absolute pressure, once finish the calibrate, it will be 0 here as default
- Differential pressure, once finish the calibrate, it will be 0 here as default
- Differential pressure

Reading Type

You can start the reading once finished the calibration

- Static pressure
- Pressure differential
- Weather Data, show the following weather data in this page
 - Outdoor Temperature
 - Outdoor RH
 - Bar. Pressure
 - Dew Point

SAVE, you can save the weather data for your reference.

Static Pressure

Please blue probe and press start (Keep Cap on Red Fitting), it will show the reading below on Page “Static Pressure”

Pressure: ____ (units)

Outdoor Temperature

Outdoor RH

Barometric Pressure

Dew Point

STOP, you can click STOP to terminate the reading

Pressure Differential

Please Red Probe Before (Coil/Transition/Filter/Blower), Blue Probe After, then Press Start. It will show the reading below on page "Pressure Differential"

Return Pressure: ____ (units)

Supply Pressure: ____ (units)

Pressure Diff: ____ (units)

Outdoor Temperature

Outdoor RH

Barometric Pressure

Dew Point

STOP, you can click STOP to terminate the reading