

POM[®]-100B/POM[®]-5B

WITH
 **Bluetooth[®]**



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POM.M1.0222.R1

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www.aquasolwelding.com

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Contents

1.	Registration and Warranty	Page 2
1.1	Warranty and Intended Use	Page 2-3
2.	Introduction	Page 4
2.1	Safety Information	Page 4
2.2	POM®-100B / POM®-5B Features	Page 5
2.3	Features Introduction	Page 6
2.4	Specifications	Page 7
2.5	Accessories Kit	Page 8
3	Operation	Page 9
3.1	Keypad/ Buttons	Page 9
3.2	Setup the Device	Page 9
3.3	Powering Up	Page 10
3.4	Run the Device / Sampling Gas	Page 10
3.4.1	Intelligent Color Notification System	Pages 10-12
3.4.2	Menu Options	Page 12
3.5	Select Language	Page 13
3.6	Set Date and Time	Page 14
3.6.1	Automatic Mode	Page 14
3.6.2	Manual Mode	Page 14
3.7	Set Alarm Limits	Page 15-16
3.8	Enable Offline Data Recording	Page 16
3.9	View Offline Data (Flash Drive Mode)	Pages 17-18
3.10	Real-time Operation via Android, iOS, and Windows App	Page 19
3.10.1	Installation Instructions	Page 19
3.10.2	Menu inside App	Page 19
3.10.3	Connect/Pair your mobile to your POM-100B / POM-5B device	Page 20
3.10.4	Navigating the App	Pages 21-22
3.10.5	Update Date and Time through App	Page 22
4.	Maintenance	Page 23
4.1	Accessing Device Info	Page 23
4.2	Cleaning/Replacing the Dust Filter	Pages 23-24
4.3	Calibration Procedure	Page 24
4.3.1	HI-CAL	Pages 25-26
4.3.2	LO-CAL	Pages 27-29
4.3.3A	High Accuracy Calibration (Only for POM-5B)	Pages 30-32
4.3.3B	High Accuracy Calibration - Factory Reset (Only for POM-5B)	Pages 32-34
4.4	FIXME: Storage Information	Page 34
4.5	List of Spare Parts	Page 34
4.6	Sensor Life	Page 35
4.7	Troubleshooting Guide / FAQ	Page 36-37
	Thank You	Page 38

Thank You

THANK YOU FOR PURCHASING THE POM®-100B / POM®-5B FROM AQUASOL CORPORATION.

Please register your device to start warranty services.
www.aquasolwelding.com/pom-registration

If you have questions or comments, please contact us at:

Aquasol Corporation

Attn: Customer Service Department
80 Thompson Street
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4. Maintenance

4.7

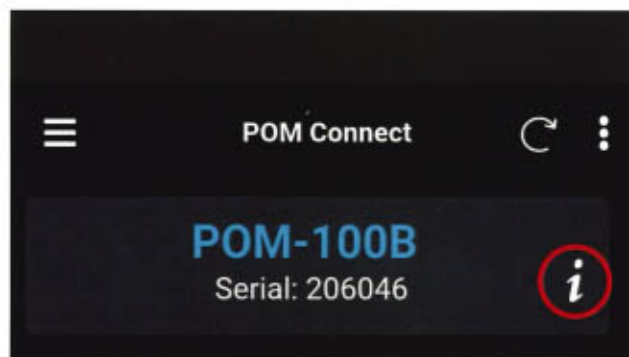
Troubleshooting Guide / FAQ

Q. How do we know the unit is completely charged?

A. Check the charging indication light on the charger. A red light indicates the device is currently charging. A green light indicates the device is completely charged.

Q. What to do if we have any other issue?

A. Please contact Aquasol Corporation with a screen shot of the "Device Info" on the device. Or you can access the same info after connecting via "POM Connect" App and clicking on the "Info" button.



1 Registration and Warranty

Please register your device to start warranty services.
www.aquasolwelding.com/pom-registration

Aquasol Corporation warrants to the purchaser that the POM®-100B / POM®-5B Oxygen Monitor is free from defects in material and workmanship for one (1) year from the date of shipment from Aquasol Corporation. www.aquasolwelding.com/pom

Aquasol Corporation's liability will be limited to the repair or replacement, at our factory, of parts found to be defective within the warranty period, as determined by Aquasol Corporation. The parts will be repaired and replaced free of charge if a Returned Goods Authorization (RGA) is issued and the device is shipped prepaid to the Aquasol Corporation Customer Service Department. This warranty is void if the product has been subject to misuse or abuse, including but not limited to:

1. Exposure to water, humidity, temperature, shock, or pressure outside of listed specifications, or has not been operated or installed in accordance with the operating and maintenance instructions
2. For repairs that were not performed by Aquasol Corporation or by one of its authorized dealers
3. Or if the identifying markings on the product label have been altered or removed

1.1 Warranty and Intended Use

1. Registration and Warranty

1.1 Warranty and Intended Use

The seller assumes no liability for consequential damages of any kind, and the buyer, by acceptance through the purchase of this product, will assume all liability for the consequences of its use or misuse by the buyer, their employees, or others.

Aquasol Corporation reserves the right to use any materials in the manufacture, repair, or service of the products and to modify the design as deemed suitable, in so far as these materials or modifications maintain the stated warranty.

POM®-100B / POM®-5B Oxygen Monitor was designed to provide the trained operator with useful information relating to the concentration of Oxygen. This information may be used in process control or to minimize possible hazardous conditions, which may be present in various processes. It is the sole responsibility of the buyer/user to determine if this product is suitable for the intended application.

Before implementation, the user must fully understand the operation and limitations of this instrument as well as the application for its use. The responsibility for proper application, operation, installation, and maintenance of POM-100B / POM-5B Oxygen Monitor is the sole obligation of the trained operator. The purchaser must ensure that the operator of POM-100B / POM-5B Oxygen Monitor has been properly trained in the use of the device as well as the possible hazards associated with its use or with the intended application.

The Aquasol Corporation will not assume any liability for misuse due to operator error.

THESE WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, OR IMPLIED INCLUDING WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE.

- Q. Can any charger be used?
- A. No, only use the provided charger.

- Q. Can the device be used with Nitrogen gas?
- A. Yes, but we recommend Argon.

- Q. Can the device be used with H2S?
- A. It is not recommended to use the POM with any sticky gas.

- Q. Can the device measure above 20.9% Oxygen concentration?
- A. The maximum reading the POM can display is 20.9%. The unit should not be exposed to Oxygen concentration greater than 25%. It may damage the sensor and void the warranty.

- Q. If the device does not go below 20.9% when exposed to purge gas, what should be done?
- A. Check if the pump is working properly by running the device and feel suction at the inlet.

- Q. Reading shows 0.00% when measuring ambient (20.9%) Oxygen concentration.
- A. Check if the pump is working. Please calibrate the device according to instructions in section 4.3.

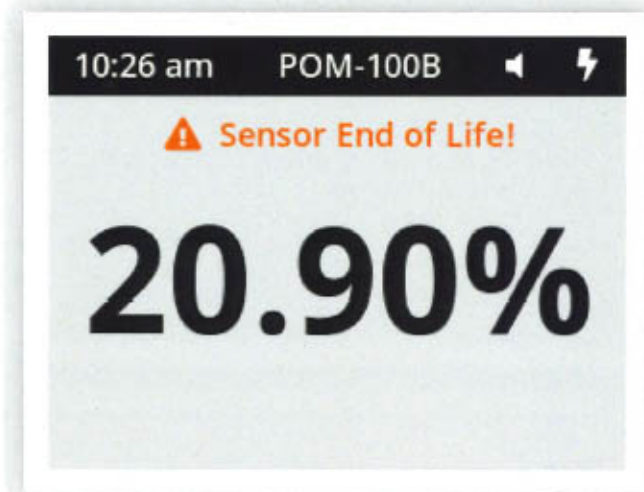
- Q. The Keypad is not working.
- A. Restart the device and try again.

4. Maintenance

4.6 Sensor Life

The sensor carries a one (1) year warranty from the day of shipment from Aquasol Corporation.

When the sensor reaches its end of life, the screen of the device will display a **"Sensor End of Life!"** message as illustrated below:



- » When this warning message appears, Oxygen readings are compromised and may be inaccurate. Contact Aquasol Corporation for replacement

2. Introduction

2.1 Safety Information



PLEASE READ THIS MANUAL IN ITS ENTIRETY BEFORE ATTEMPTING INSTALLATION OR OPERATION

- » Always use protective eyewear and observe proper safety procedures when working with pressurized gases
- » Never expose the POM®-100B / POM®-5B to unregulated gas lines or cylinder gas
- » Never expose the POM-100B / POM -5B gas input to excessive pressures (>20 PSI)
- » Use the provided Polyurethane Extension Tubing with stainless-steel probe tip for sampling gas
- » Never immerse the POM-100B / POM-5B in water or expose to high humidity
- » Never expose the POM-100B / POM-5B to flame or high temperatures
- » Use the provided charger only. Using other chargers may cause damage to the device and void the warranty
- » Never expose the POM-100B / POM-5B device to greater than 21% Oxygen concentration
- » Never expose the POM-100B/POM-5B to high frequency equipment

If you have questions or comments, please contact us at:

Aquasol Corporation

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2. Introduction

2.2 POM®-100B / POM®-5B Features

- » Smart Features:
 - » BLE (Bluetooth Low Energy Interface)
 - » Real-time Remote Viewing and Storing of Data
 - » Compatible with companion Apps available on Android, iOS, and Windows
- » Display Features:
 - » 2.8" LCD Color Display
 - » Intelligent Color Notification System
 - » Operates in four (4) languages (English, Deutsch, Espanol or Portugues)
- » Device Features:
 - » Internal Pump
 - » 2-Point Calibration
 - » Audio-Visual Alarm
 - » Unlimited Offline Data Logging on Device
- » Superior Construction and Components:
 - » Airtight, Dust Proof, Water Resistant, and Impact Resistant
 - » Built-in Inline Replaceable Dust Filter
 - » Rechargeable Battery
 - » Long Battery Life – 30 hours

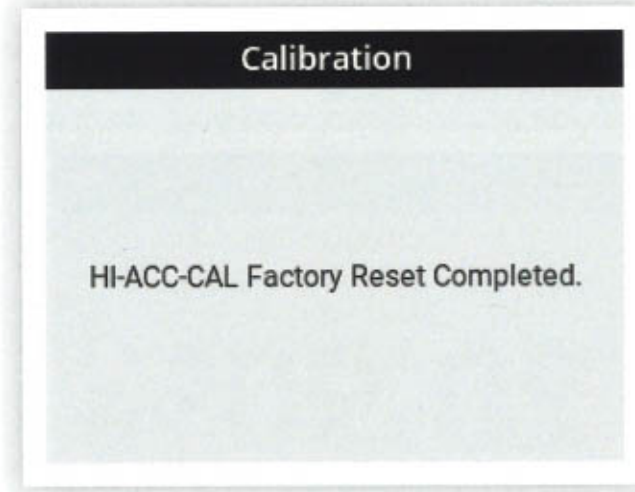


Front View

Back View of 100ppm

Back View of 5ppm

5. Once **"HI-ACC-CAL Factory Reset"** is complete, the device will display a confirmation message **"HI-ACC-CAL Factory Reset Completed"**



4.3.3B High Accuracy Calibration-Factory Reset (Only for POM®-5B)

The POM®-100B / POM®-5B Monitor should be kept in a location where it will not be subjected to temperatures below -4°F (-20°C) or above 140°F (60°C) for extended periods.

4.4 Storage Information

PART NUMBER	DESCRIPTION
POM-Filter SB	In-line Sintered Bronze Dust Filter
POM-Charger US	US Power Supply/Charger
POM-Charger EU	European Power Supply/Charger
POM-Tube Assembly	Polyurethane Extension Tubing with Stainless-Steel Probe
POM-USB	USB Printer Cable
POM-Case	Oxygen Monitor Carrying Case

4.5 List of Spare Parts

4. Maintenance
4.3.3B
High Accuracy
Calibration-Factory
Reset (Only
for POM®-5B)

1. Press the "MENU/ENTER" button
2. Use the "UP/DOWN" arrow buttons to find "Calibration", use the "ENTER" button to access the "Calibration" menu
3. Use the "UP/DOWN" arrow buttons to highlight "HI-ACC-CAL Factory Reset", press the "ENTER" button
4. The device will display a confirmation message "Do you want to proceed with HI-ACC-CAL Factory Reset?" Press the "MENU/ENTER" button to start the "HI-ACC-CAL Factory Reset"



The Aquasol POM-100B® / POM-5B® is a battery-powered, Bluetooth transmitting, rechargeable, handheld digital oxygen monitor with an internal pump.

The POM-100B / POM-5B is a durable, battery-powered instrument that accurately measures oxygen concentration with 0.01% (100 PPM) / 0.0005% (5 PPM) resolution.

The POM-100B / POM-5B is ideally suited for high purity welding where evacuation of oxygen is paramount. Before welding, the pipe will be pre-purged to displace oxygen with inert gas.

Constant monitoring of the oxygen level is necessary until it is ascertained that oxygen has been evacuated to 0.1-0.01% to enable the commencement of welding to prevent oxidation, discoloration, and coking.

The POM-100B / POM-5B measures traces of oxygen above 0.01% (100 PPM) / 0.0005% (5 PPM) being displaced by the purge gas so that the operator knows when a safe level to begin welding has been achieved.

The POM-100B / POM-5B accurately measures low concentrations of oxygen in purged tubing and high purity welds, ensuring a high-quality finish. With Bluetooth Transmitting capabilities, this device allows the oxygen monitor to send the oxygen readings wirelessly to a BLE-capable device with Android/iOS/Windows operating system. This allows the operator to monitor real-time readings from a remote location permitting the ability to access the data interface while standing up to 100 feet (30 meters) away.

Designed for use in high purity welding applications in the field, fabrication shop, or construction site, the versatile POM-100B / POM-5B is equally suited for use on production floors or in research labs. Its rugged and compact design enables it to be easily carried to the job site in its polycarbonate carrying case. The airtight case design provides exceptional protection from the elements. The case is impact resistant, able to withstand falls from high levels without breaking or cracking.

2. Introduction

2.4 Specifications

POM-100B

SPECIFICATIONS	RANGE
Measurement Range	0 - 20.9 %
Display Resolution	0.01%
Accuracy	± 0.01%
Typical Response Time	approximately 60 seconds
Sensor Life	3+ years
Operating/Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Humidity	0-95% non-condensing
Pump Sampling Rate	0.4 - 0.7 LPM (400 - 700 cc/min)
Maximum Input Pressure	20 PSI
Operating Time	25-30 hours
Battery Charge Time	< 3 hours
Bluetooth Range	approximately 100ft/30m
Weight	18 oz (510 gms)
Dimensions	8.05" x 3.4" x 1.72" (20.45cm x 8.64cm x 4.37cm)

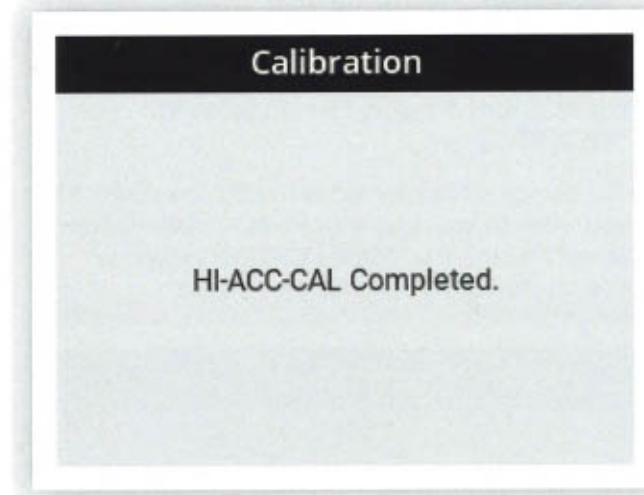
POM-5B

SPECIFICATIONS	RANGE
Measurement Range	0 - 20.9 %
Display Resolution	0.0005% to 20.9%
Accuracy	± 0.002% F.S. *
Measurement Range	0.001 to 20.9% Oxygen
Typical Response Time	approximately 60 seconds
Sensor Life	3+ years
Operating/Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Humidity	0-95% non-condensing
Pump Sampling Rate	0.4 - 0.7 LPM (400 - 700 cc/min)
Maximum Input Pressure	20 PSI
Operating Time	8-10 hours
Battery Charge Time	< 3 hours
Bluetooth Range	approximately 100ft/30m
Weight	18.4 oz (522 gms)
Dimensions	8.05" x 3.4" x 1.72" (20.45cm x 8.64cm x 4.37cm)

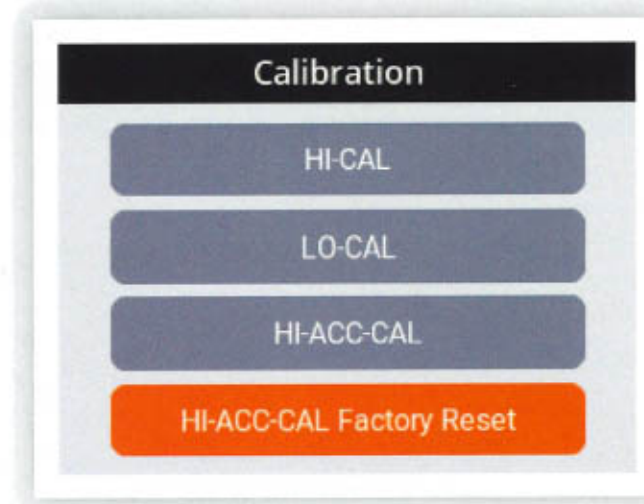
The Aquasol POM is available in two (2) display resolutions:
100PPM (POM®-100B) & 5PPM (POM®-5B)

* Best Accuracy

- Once **"HI-ACC-CAL"** is complete, the pump will automatically turn off, press the **"BACK"** button to continue back to the **"CALIBRATION MENU"**



- » You can always reset **"HI-ACC-CAL"** calibration to factory defaults using the **"HI-ACC-CAL Factory Reset"** option



4.3.3A
High Accuracy
Calibration (Only
for POM®-5B)

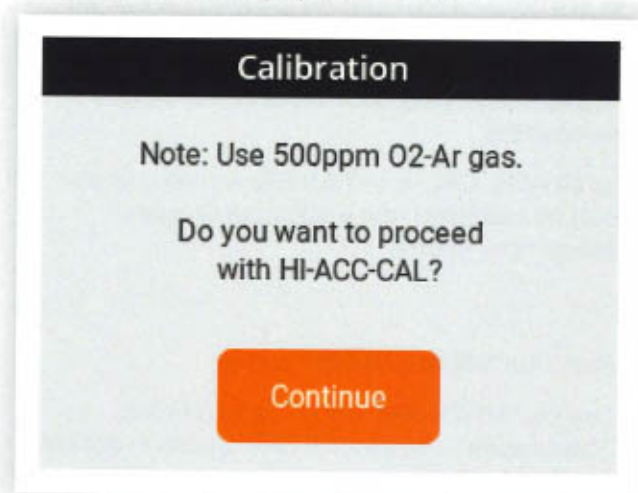
4.3.3B
High Accuracy
Calibration-Factory
Reset (Only
for POM®-5B)

4. Maintenance

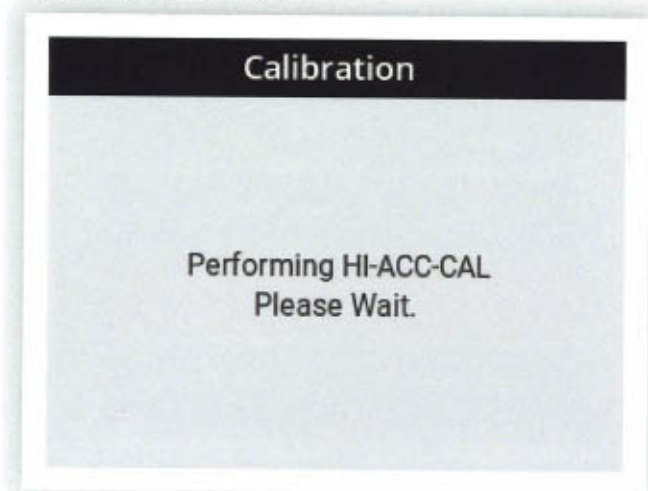
4.3.3A

High Accuracy
Calibration (Only
for POM®-5B)

4. The device will display a confirmation message
“Do you want to proceed with HI-ACC-CAL?”
 Press the **“MENU/ENTER”** button to start the
“HI-ACC-CAL” high-point calibration



- » The pump will start sampling gas and the
“Performing HI-ACC-CAL. Please Wait.”
 message is displayed



- » POM®-100B / POM®-5B Monitor with built-in Sensor
- » Polycarbonate Carrying Case
- » Polyurethane Extension Tubing (5' or 1.5m) with Quick Connect and Stainless-Steel Probe (6" or 16mm)
- » Power Supply/Charger (US or Euro)
- » USB Printer Cable
- » Phillips Head Screwdriver
- » Instruction Manual

3. Operation

3.1 Keypad/Buttons

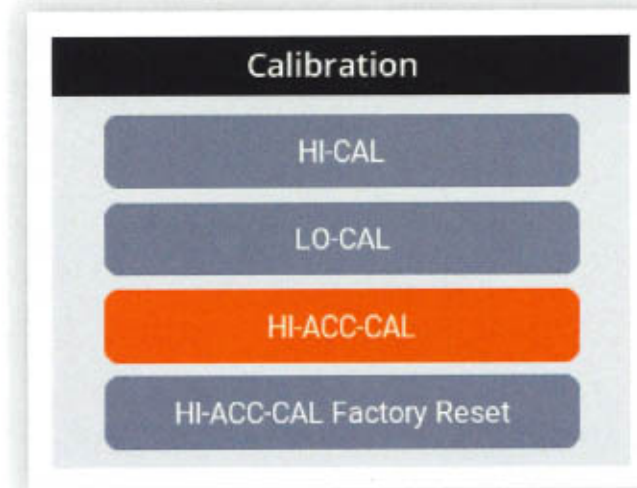


3.2 Setup the Device

Attach the Polyurethane Extension Tubing with Female Quick Connect Fitting to the Male Quick Connect Fitting on the top of POM®-100B / POM®-5B. Pull gently to ensure the connection is secured in place. The tubing can easily be removed with the push of a button, no tools are necessary.

- » For POM®-5B there is an extra calibration step "HI ACC. CAL". This step is to make the device accurate below 100ppm
- » **HI ACC.CAL** of the POM-5B is initially performed at the factory. However, if you believe the device needs to be re-calibrated for any reason, **please contact Aquasol Corporation before proceeding**
- » For **HI ACC. CAL**, the POM-5B's sampling probe must be calibrated with a 500 ppm Oxygen-Nitrogen gas mixture.

1. Press the "MENU/ENTER" button
2. Use the "UP/DOWN" arrow buttons to find "Calibration", use the "ENTER" button to access the "Calibration" menu
3. Use the "UP/DOWN" arrow buttons to highlight "HI-ACC-CAL", press the "ENTER" button

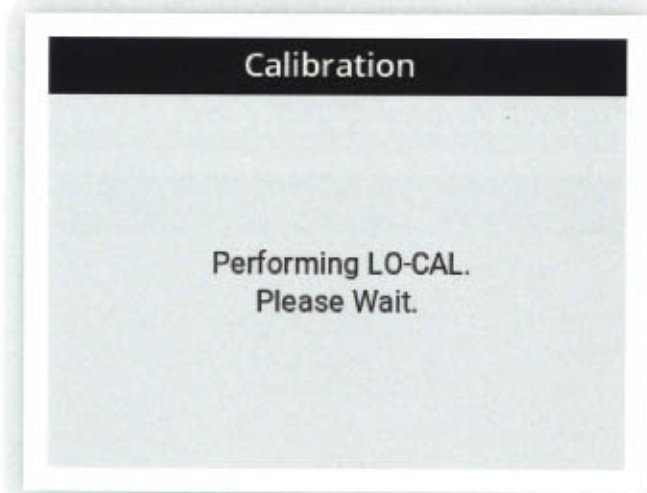


4.3.3A High Accuracy Calibration (Only for POM®-5B)

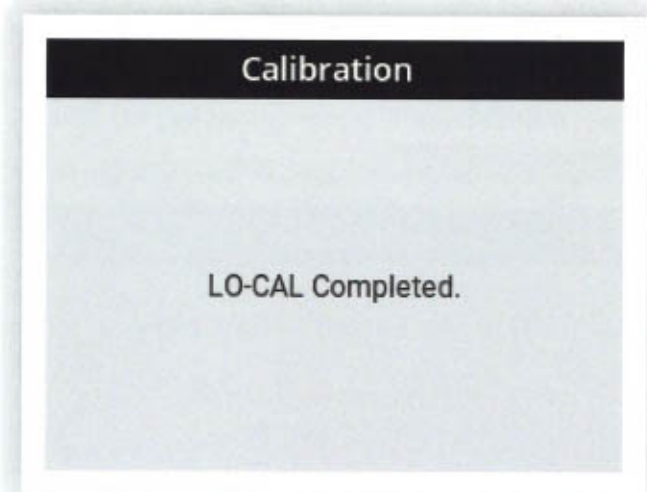
4. Maintenance

4.3.2 LO-CAL

- » The pump will start sampling gas and the “Performing LO-CAL. Please Wait.” message will be displayed

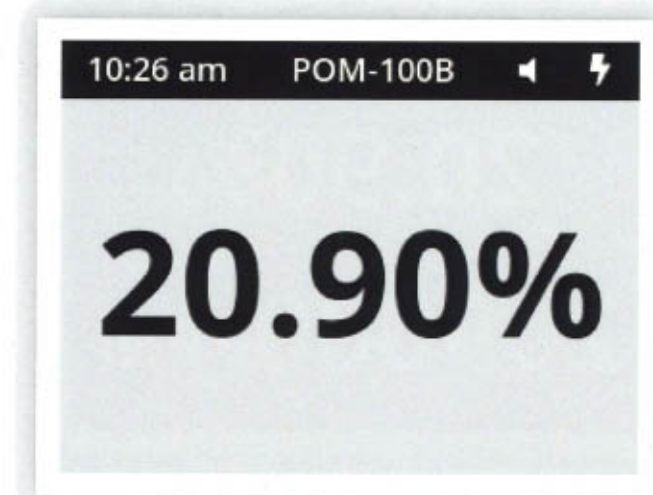


5. Once “LO-CAL” is complete, the pump will automatically turn off, press the “BACK” button to return to the “CALIBRATION MENU”



3.3 Powering Up

- » Press the Blue “POWER” button located below the screen
- » Upon initial activation, the screen will display:



- » Upon pressing the “RUN” button, the pump will start sampling the input gas and activates Intelligent Color Notification System

3.4 Run the Device / Sampling Gas

POM®-100B / POM®-5B has an Intelligent Color Notification System for a quick visual check on current oxygen level set to operator preferences.

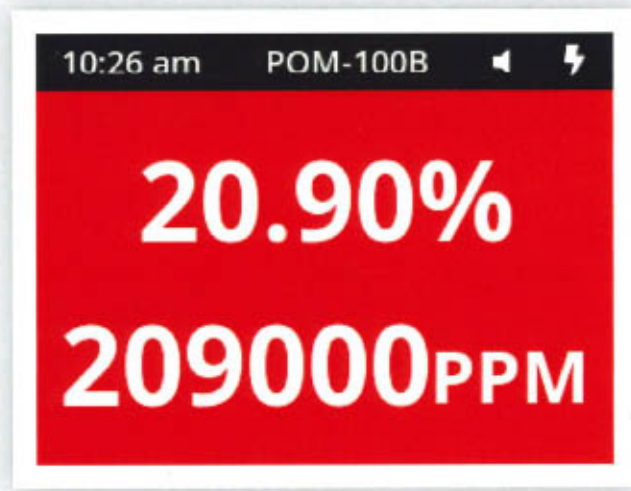
Customized “Alarm limits” can be easily set for Upper and Lower limits. Refer to section 3.7 for instruction on setting limits.

3.41 Intelligent Color Notification System

3. Operation

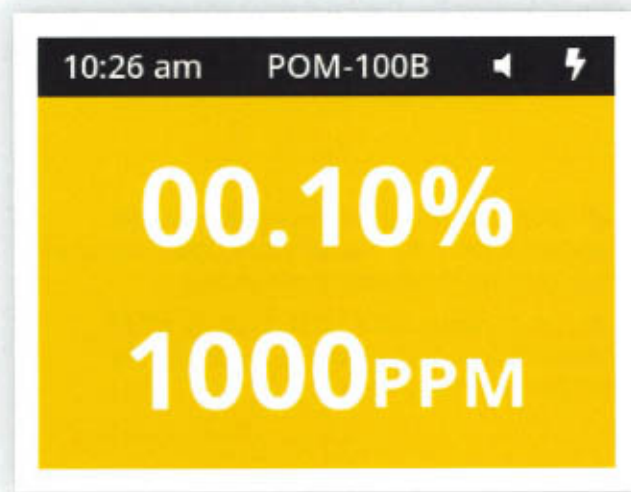
3.41 Intelligent Color Notification System

- » Red indicates that the current measurement is greater than the **“Upper Alarm Limit”**



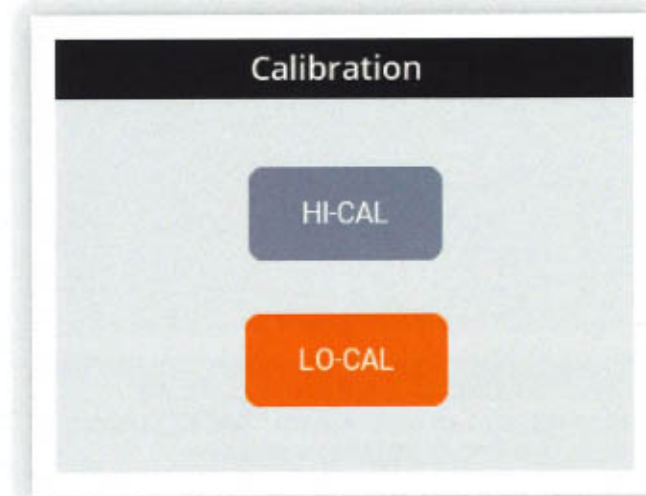
Red Notification Light

- » Yellow indicates that the current measurement is between the **“Upper Alarm Limit”** and **“Lower Alarm Limit”**

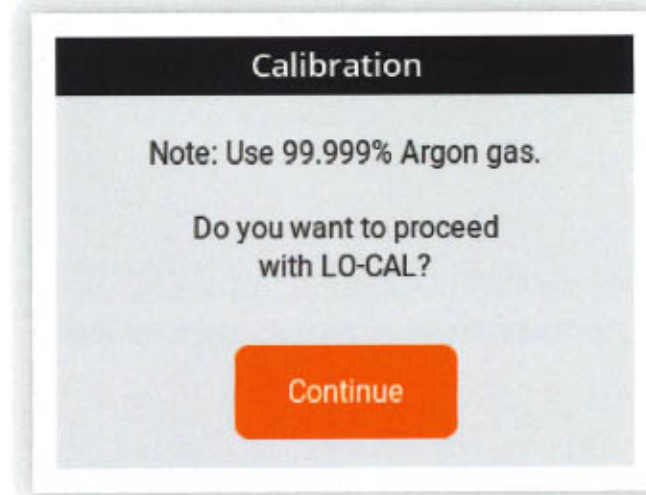


Yellow Notification Light

1. Press the **“MENU/ENTER”** button
2. Use the **“UP/DOWN”** arrow buttons to find **“Calibration”**. Use the **“ENTER”** button to access the **“Calibration”** menu
3. Use the **“UP/DOWN”** arrow buttons to highlight **“LO-CAL”**. Press the **“ENTER”** button



4. The device will display a confirmation message **“Do you want to proceed with LO-CAL?”** Press the **“MENU/ENTER”** button to start the **“LO-CAL”** low-point calibration



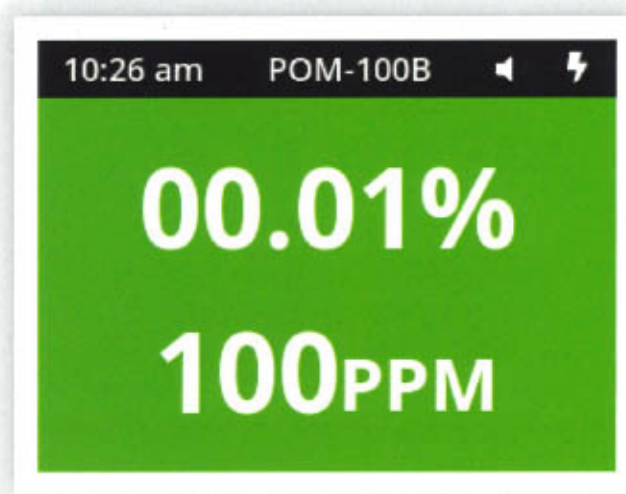
4. Maintenance

4.3.2 LO-CAL



- » For the "LO-CAL" low-point calibration, the POM®-100B / POM®-5B's sampling probe must be exposed to **99.999% Pure Argon**
- » Insert the sample probe directly in the Pure Argon line.
- » The recommended method for exposing the probe to Argon is pictured above

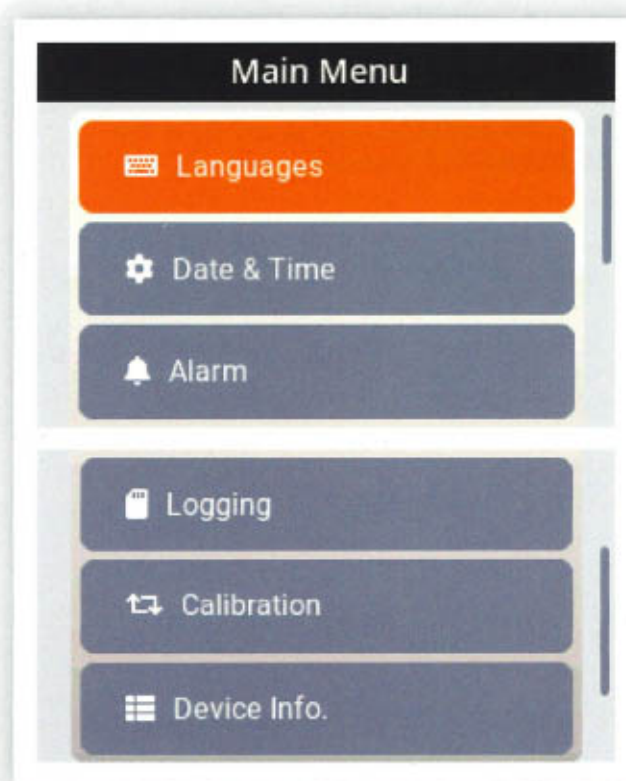
- » Green indicates that the current measurement is lower than the "Lower Alarm Limit"



Green Notification Light

3.41 Intelligent Color Notification System

3.42 Menu Options



Menu 1

Menu 2

3. Operation

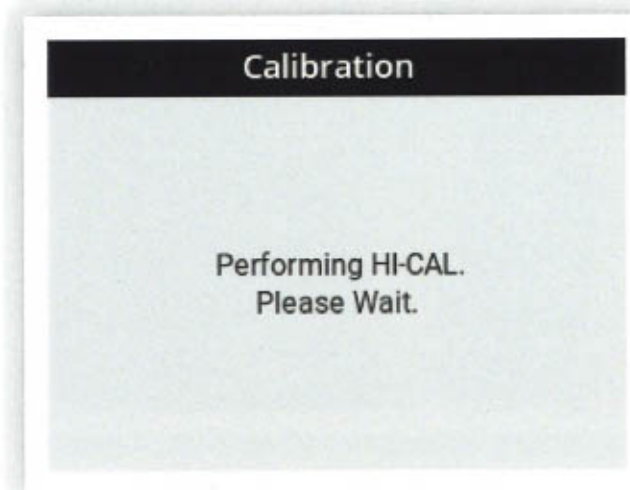
3.5 Select Language



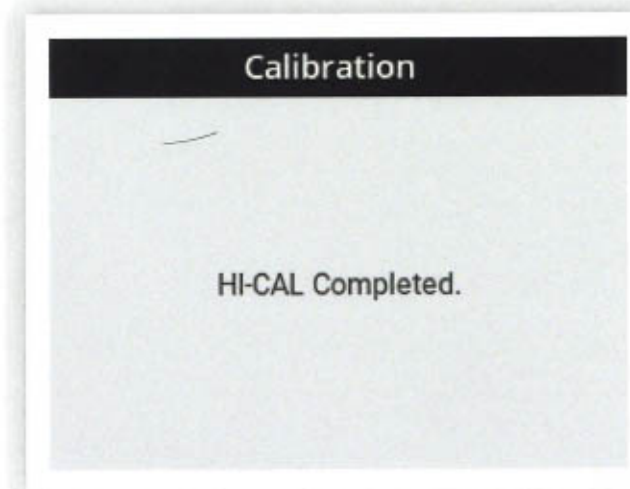
1. Press the "MENU/ENTER" button
2. Select "Languages" and press the "MENU/ENTER" button
3. Using the "UP/DOWN" arrow buttons, scroll and choose the desired language ((English, Deutsch, Espanol or Portugues)
4. Once the language is highlighted, press the "MENU/ENTER" button

» The pump will start sampling gas and the "Performing HI-CAL. Please Wait." message will be displayed

4.3.1 HI-CAL



5. Once "HI-CAL" is complete, the pump will automatically turn off, press the "BACK" button to return to the "CALIBRATION MENU"



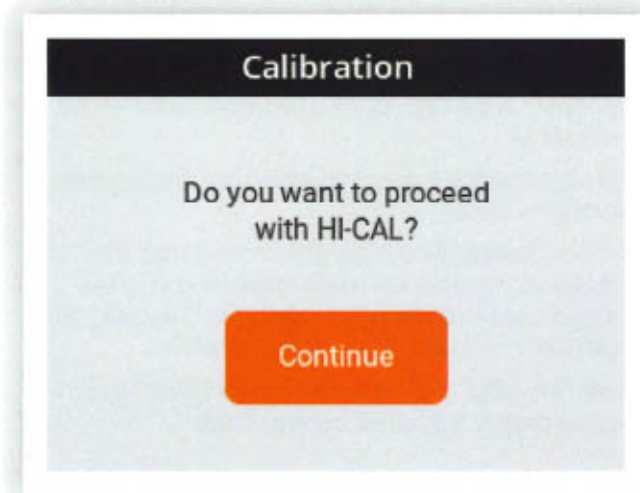
4. Maintenance

4.3.1 HI-CAL

1. Press the **"MENU/ENTER"** button
2. Use the **"UP/DOWN"** arrow buttons to find **"Calibration"**, use the **"ENTER"** button to access the **"Calibration"** menu
3. Use the **"UP/DOWN"** arrow buttons to highlight **"HI-CAL"**, press the **"ENTER"** button .

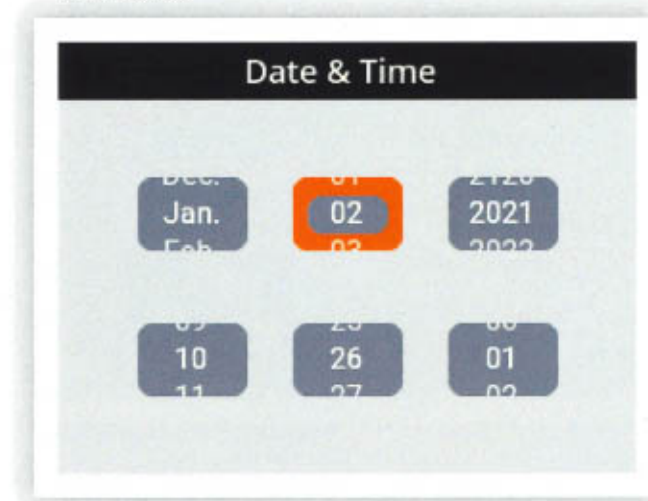


4. The device will display a confirmation message **"Do you want to proceed with HI-CAL?"** Press the **"MENU/ENTER"** button to start the **"HI-CAL"** high-point calibration



- » There are two ways to set Date and Time: Automatic and Manual

3.6 Set Date and Time



- » You can use any one of the BLE Apps to set the **Date and Time**. (Refer to 3.10.5. Update Date and Time through App)

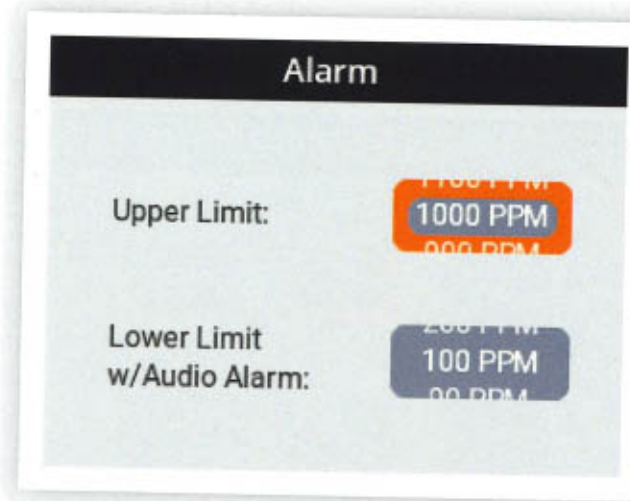
3.6.1 Automatic Mode

1. Press the **"MENU/ENTER"** button
2. Using the **"UP/DOWN"** arrow buttons, select **"DATE & TIME"**. Press the **"MENU/ENTER"** button
3. Select **Month**, **Day**, and **Year** using the **"UP/DOWN"** arrow buttons and press the **"MENU/ENTER"** button after each selection. Repeat for time settings
4. Once the **DATE & TIME** are set, press the **"BACK"** button to return to the **"MAIN MENU"**

3.6.2 Manual Mode

3. Operation

3.7 Set Alarm Limits



1. Press the **"MENU/ENTER"** button
2. Using the **"UP/DOWN"** arrow buttons, select **"Set Alarm Limits"**. Press the **"MENU/ENTER"** button
3. The Alarm Limits are used for the Intelligent Color Notification System
4. Press the **"MENU/ENTER"** button to confirm the limit values
5. Press the **"BACK"** button to return to the **"MAIN MENU"**

2. Remove the Filter Chamber Cover by slowly pushing it up and outward
 - » The sintered bronze Cap Dust Filter sits in the input port on the device
 - » Clean and dry the Dust Filter before inserting or replace with new Dust Filter
 - » Replace the Filter Chamber Cover, screw it securely to the device ensuring there are no gaps between Filter Chamber Cover and the device



- » All POM®-100B / POM®-5B Oxygen Monitors are factory calibrated and certified
- » It is recommended to calibrate the device periodically (6 months) to ensure accurate operation
- » **"HI-CAL"** is the high-point calibration and samples ambient air
- » **"LO-CAL"** is the low-point calibration and samples 99.999% Argon
- » 2-Point Calibration can be done to increase the accuracy of the device when measuring very low oxygen concentrations. For this, both **"HI-CAL"** and **"LO-CAL"** calibrations must be completed
- » Both **"HI-CAL"** and **"LO-CAL"** calibrations take approximately 5 minutes each to finish

4.2 Cleaning/ Replacing the Dust Filter

4.3 Calibration Procedure

4. Maintenance

4.1 Accessing Device Info.

Device Info.	
Model	POM-100B
Serial No.	206046
Sensor No.	0024843792, 01/01/21
HI-CAL	11/01/21, 10:10:44, 208500
LO-CAL	11/01/21, 10:18:35, 500

1. Press the "MENU/ENTER" button
2. Select "Device Info." and press the "MENU/ENTER" button

4.2 Cleaning/ Replacing the Dust Filter

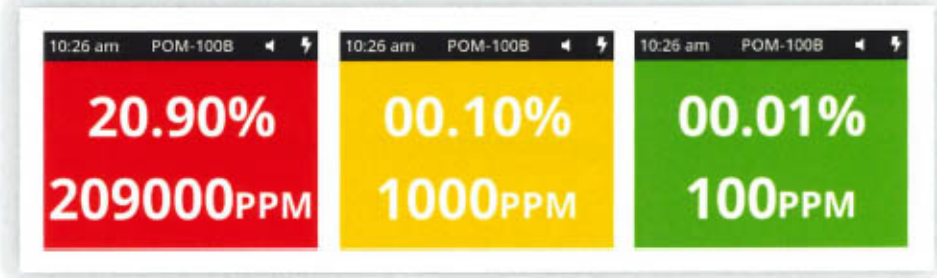


Cleaning/Replacement of Dust Filter is only necessary when the device is continuously operating in an extremely dusty environment

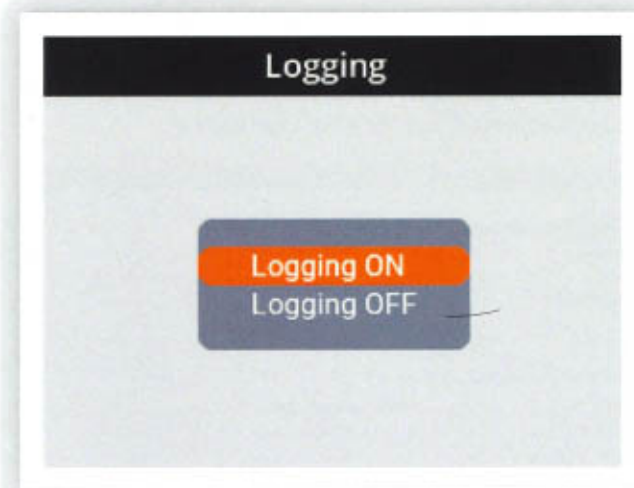
1. Unscrew the four Philips-head screws on the Filter Cover of POM®-100B / POM®-5B as shown below

3.7 Set Alarm Limits

6. **Red** indicates that the current measurement is greater than the "Upper Alarm Limit"
7. **Yellow** indicates that the current measurement is between the "Upper Alarm Limit" & "Lower Alarm Limit"
8. **Green** indicates that the current measurement is lower than the "Lower Alarm Limit"



3.8 Enable Offline Data Recording

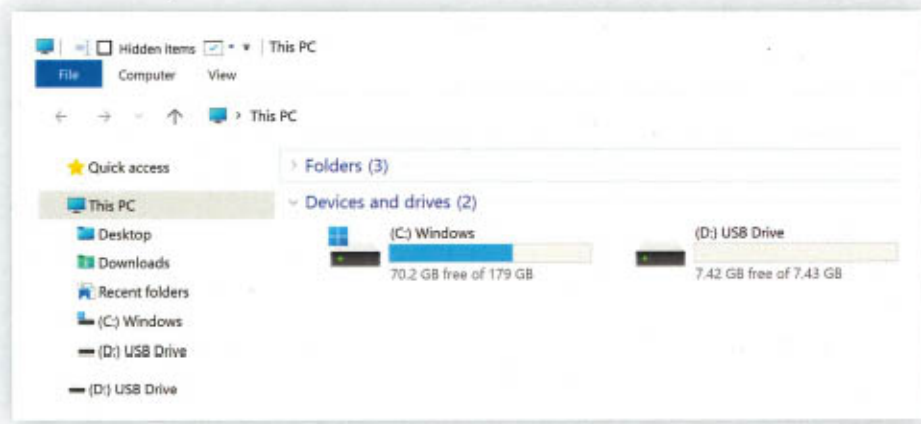


- » If Logging is enabled, the device will store a log of every data point in a CSV (comma-separated value) file with a default name of MM-DD-YY.csv
- » Logging is enabled by default

3. Operation

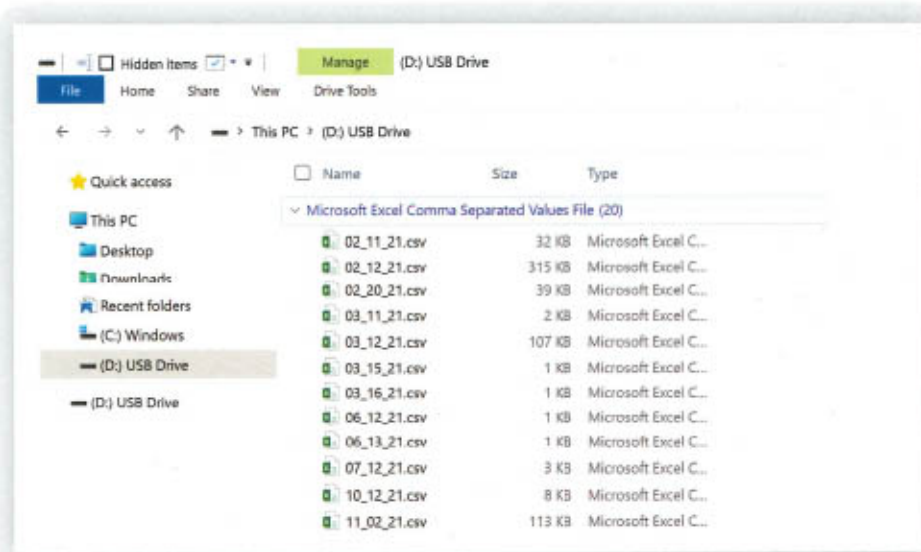
3.9 View Offline Data (Flash Drive Mode)

- » To access the offline logs stored on the device, connect the device to the computer using the provided USB printer cable. The device will show the message **“USB mounted, restart to exit”**



USB Mode Explorer

- » The Device's internal storage is mounted as a flash drive with the name **“USB Drive”**. Wait for it to appear on File Explorer after connecting.



USB Mode CSV

- » Click on **“Back”** to navigate to the **“Devices”** page, click on **“Devices”** in the **“MENU”** to see the list of devices
- » Click on **“Download Data”** to save readings in the current session as a .csv file
- » Click on **“Download Chart”** to save the graph as a .png file



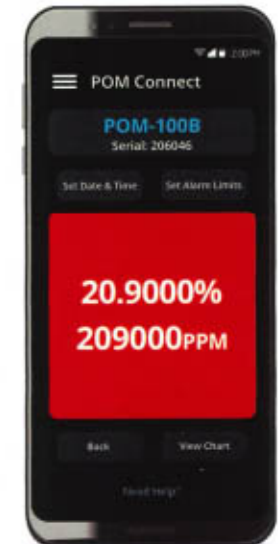
- » Clicking on **“Set Date & Time”** sets the POM®-100B / POM®-5B device to the current date and time on your Smartphone/Laptop



3.10.4 Navigating the App



3.10.5 Update Date and Time Through App



3. Operation

3.10.4 Navigating the App



- » The App screen will display the main view with current Oxygen readings as measured by the device

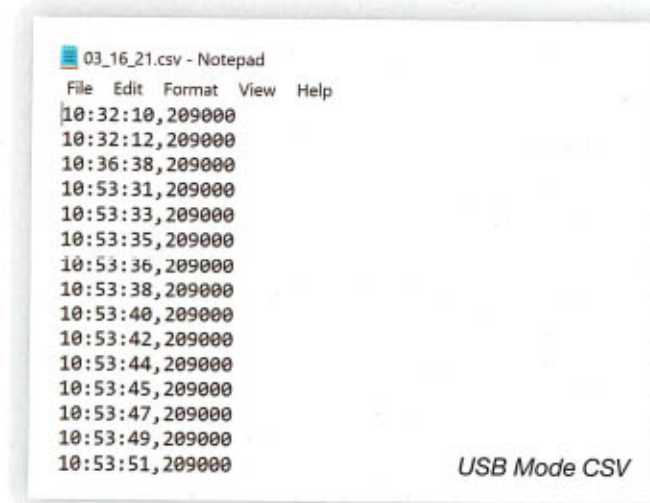


- » The Main View contains current Oxygen readings from POM®-100B / POM®-5B device with Intelligent Color Notification System
- » Click on **“Set Alarm Limits”** to set the Alarm Limits for the Intelligent Color Notification System



- » Click on **“View Chart”** to see a real-time graph of the current Oxygen readings on the App

- » Logs are stored in one file per day with a default name of MM-DD-YY.csv
- » To save the logs, simply copy and paste, like any file from a flash drive
- » Only use the built-in flash drive for storing log files. Using it for large files might be excessively slow and or may corrupt the flash drive



- » After using the USB mode, disconnect the device from the computer and restart by pressing the **“POWER”** button twice

3.9 View Offline Data (Flash Drive Mode)

3. Operation

3.10 Real-time Operation via Android, iOS, and Windows App

- » The POM®-100B / POM®-5B is equipped with a BLE transmitting device which allows the oxygen monitor to send the oxygen readings wirelessly to any BLE device (i.e. Smartphone/Laptop)

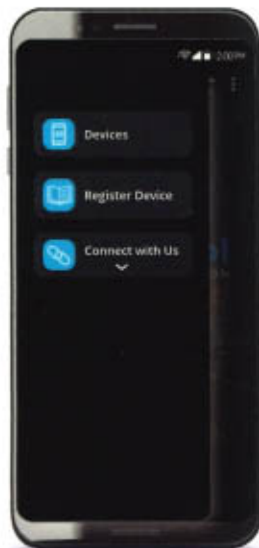
3.10.1 Installation Instructions

1. Open App Store (iPhone App Store for iPhone, Google Play App Store for Android, Microsoft Store for Windows) on your Smartphone/Laptop
2. Search for the **"POM CONNECT"** App by Aquasol Corporation
3. Install the **"POM CONNECT"** App

3.10.2 Menu Inside App

The **"MENU"** has the following options:

- » **"Devices"**: Provides a list of available POM-100B / POM-5B devices
- » **"Register Device"**: Redirects to the Aquasol Corporation webpage for warranty registration of the device
- » **"Connect With Us"**: Redirects to the Aquasol Corporation contact form page for submission of any questions



- » Place your POM-100B / POM-5B device and Smartphone/Laptop close to each other
- » Ensure that your POM-100B / POM-5B device is turned **"ON"**
- » Ensure the **"POM CONNECT"** App has Bluetooth and Location permissions enabled.
- » Ensure Bluetooth and Location are turned **"ON"** in your Smartphone/Laptop settings
- » Press the **"Start Scan"** to identify POM devices



- » Your POM-100B / POM-5B device should be listed along with its unique serial number



- » Select the device which reflects your unique serial number

3.10.3 Connect/Pair your mobile to your POM®-100B / POM®-5B device

