

Pyxis[®]

nanoVIEW

NanoView™ UC-10 Portable Display

Portable Display, Calibration & Data Logging Terminal



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USER MANUAL

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Warranty Information

Confidentiality

The information contained in this manual may be confidential and proprietary and is the property of Pyxis Lab, Inc. Information disclosed herein shall not be used to manufacture, construct, or otherwise reproduce the goods described. Information disclosed herein shall not be disclosed to others or made public in any manner without the express written consent of Pyxis Lab, Inc.

Standard Limited Warranty

Pyxis Lab warrants its products for defects in materials and workmanship. Pyxis Lab will, at its option, repair or replace instrument components that prove to be defective with new or remanufactured components (i.e., equivalent to new). The warranty set forth is exclusive and no other warranty, whether written or oral, is expressed or implied.

Warranty Term

The Pyxis device warranty term is thirteen (13) months ex-works. In no event shall the standard limited warranty coverage extend beyond thirteen (13) months from original shipment date. The lithium-ion battery warranty term is (6) months.

Warranty Service

Damaged or dysfunctional instruments may be returned to Pyxis for repair or replacement. In some instances, replacement instruments may be available for short duration loan or lease.

Pyxis warrants that any labor services provided shall conform to the reasonable standards of technical competency and performance effective at the time of delivery. All service interventions are to be reviewed and authorized as correct and complete at the completion of the service by a customer representative, or designate. Pyxis warrants these services for 30 days after the authorization and will correct any qualifying deficiency in labor provided that the labor service deficiency is exactly related to the originating event. No other remedy, other than the provision of labor services, may be applicable.

Repair components (parts and materials), but not consumables, provided during a repair, or purchased individually, are warranted for 90 days ex-works for materials and workmanship. In no event will the incorporation of a warranted repair component into an instrument extend the whole instrument's warranty beyond its original term.

Warranty Shipping

A Repair Material Authorization (RMA) Number must be obtained from Pyxis Technical Support before any product can be returned to the factory. Pyxis will pay freight charges to ship replacement or repaired products to the customer. The customer shall pay freight charges for returning products to Pyxis. Any product returned to the factory without an RA number will be returned to the customer. To receive an RMA you can generate a request on our website at <https://pyxis-lab.com/request-tech-support/>.

Pyxis Technical Support

Contact Pyxis Technical Support at +1 (866) 203-8397, service@pyxis-lab.com or by filling out a request for support at <https://pyxis-lab.com/request-tech-support/>.

1. Introduction

The Pyxis NanoView UC-10 is a portable calibration, diagnostic, display, and data logging terminal for rapid and simple maintenance use with only Pyxis Lab sensors. The device serves as a convenient alternative to the use of mobile smart phones or laptops with the uPyxis mobile or desktop apps. The UC Nano offers simple to use in the field sensor diagnostics and calibration interface with live data visibility and trending, data logging and data transfer in a completely portable and robust design. Designed for direct wired connection to both Pyxis 7-pin and 8-pin smart sensors, the NanoView UC-10 hosts a built-in 10,000mAh rechargeable lithium-ion battery and can directly power the Pyxis sensor for maintenance as well as continuous use and data logging for more than 24-hours. The device offers 32MB of data storage and can connect to any PC or Smart Device via USB for data recording and exporting as well as firmware upgrading and battery recharging. As an added value, the NanoView UC-10 comes standard with integrated low-power Bluetooth 5.0 and can be connected to the uPyxis mobile or desktop app for expanded functions.

****NOTE*** This manual uses the Pyxis SP-712 pH & ORP sensor as an example to describe the NanoView UC-10 functions and features. The intuitive user interface will vary slightly depending on the specific Pyxis sensor connected.*

1.1 Main Features

- Portable sensor powering, diagnostics, calibration, and live data display
- Capable of over 10,000 measured values storage with a time and date stamp
- Portable & Small Design easily fits in the pocket.
- 2.4-inch color graphic screen that can be read in direct sunlight
- Ideal for customers not able to use uPyxis Mobile or Desktop app for sensor maintenance.
- USB-C Charging & Data Export
- BlueTooth 5.0 Enabled for Users Desiring to use uPyxis interface

2. Specifications

Item	NanoView UC-10
P/N	43062
Operating Temperature	-10-60 °C; 5%-95% Relative Humidity
Storage Temperature	-20-70 °C; 5%-95% Relative Humidity, No Condensation
Protection	IP65
Power	USB-Type C, 5V/1A
Dimension	L143x W66 x D32 mm
Display	2.4' Color, 320x240 Resolution
Weight	367g
Data Export	USB-Type C, USB Drive
Bluetooth	Bluetooth 5.0 Connectivity for uPyxis with more Functions
Output/Input	One RS485-Modbus, Support Digital Sensor Communication Suitable for 7&8 Pin Sensors, 5 Pin needs adapter cable
Battery ⁽²⁾	10,000mAh, Standby Time >24 Hours Continuous (6-month warranty)
Data Log	One-year Storage by Built-in 32M Flash Memory

NOTE (1) Specifications are subject to change without notice. (2) Actual battery capacity and standby time may vary individually.

Order Information

NanoView UC-10 (Portable Display & Data Logging Terminal w Lithium-Ion Battery & USB Cable)

P/N

43062

Optional Accessories Information

CC-MS-FE-13 (4-Meter 7-Pin Cable for Level Sensors Only Connect to NanoView UC-10)

P/N

18630

3. Unpacking the NanoView UC-10

Remove the instrument and accessories from the shipping container and inspect each item for any damage that may have occurred during shipping. Verify that all items listed on the packing slip are included. If any items are missing or damaged, please contact Pyxis Customer Service at service@pyxis-lab.com

3.1 Standard Accessories

- One **NanoView UC-10** portable display & data logging terminal (P/N:43062)
- Includes One **USB Type-A to Type-C** cable
- The full instrument manual is available for download at [Support Documents - Pyxis Lab, Inc. \(pyxis-lab.com\)](https://pyxis-lab.com/support-documents)

4. Supported Pyxis Sensors

The current NanoView UC-10 firmware supports use with the following Pyxis Lab sensors. Sensors will be added to this list and to obtain the latest firmware you may contact service@pyxis-lab.com.

Sensor Name	P/N	Measured Analyte	Unit Of Measure	Pin Format
CR-300	51007	LPR Corrosion	General MPY / Pit Index	8
CR-301	51021	High Temp LPR Corrosion	General MPY / Pit Index	8
EM-500	50501	In-Vivo Chlorophyll a	ppb	7
HM-500	52101	Oil in Water	ppm	7
HM-510	52102	Oil in Water	ppm	7
HM-520	52106	Oil in Water	ppm	7
HM-600	52111	Organic Matter	ppm	7
LS-200	54011	Ultra-sonic Level	Volume / Distance	7-exp
LS-202	54002	Ultra-sonic Level	Volume / Distance	7-exp
LSR-801	54027	Radar Level	Volume / Distance	7-exp
LSR-802	NA	Radar Level	Volume / Distance	7-exp
ST-710 / ST-710SS	53001 / 53030	pH	pH	7/8
ST-711 / ST-711SS	53002 / 53031	ORP	mV	7/8
ST-712 / ST-712SS	53003 / 53032	pH + ORP	pH / mV	7/8
ST-720	53101	Temp + Conductivity	°C / °F + μS/cm	7
ST-724	10009	Temp + Conductivity/Resistance	°C / °F + μS/cm	8
ST-725	53108	Temp + Conductivity/Resistance	°C / °F + μS/cm	8
ST-726	53114	Temp + Conductivity	°C / °F + μS/cm	7
ST-728	53117	Temp + Conductivity/Resistance	°C / °F + μS/cm	8
LT-632	53250	Turbidity	NTU	8
LT-635	53251	Suspended Solids	ppm	8
LT-736 / LT-736B	53215 / 53223	Ultra-Low Turbidity	NTU	8
LT-737 / LT-737B	53216 / 53224	Ultra-Low Turbidity	NTU	8
LT-739 / LT-739B	53221 / 53225	Ultra-Low Turbidity	NTU	8
ST-500	50661	PTSA	ppb	7
ST-500RO	50669	Low Range PTSA	ppb	7
ST-525 / ST-525SS	50665 / 50666	Fluorescein	ppb	7
ST-525HR	50914	Fluorescein High Range	ppb	7
ST-565 / ST-565T	50664 / 50671	HST / TTA	ppm	7
ST-588	50692	PTSA + Fluorescent Polymer	ppb / ppm	8
ST-590	50690	Fluorescent Polymer	ppm	8
ST-600	50231	Bleach Chlorine Concentration	%	7
ST-601	50232	Chlorine Dioxide Concentration	%	7
ST-604	50233	Bleach Chlorine Concentration	%	7
ST-730	53201	Turbidity	NTU	7
ST-730B	53202	Turbidity	NTU	7
ST-731	53505	Turbidity	NTU	7
ST-735	53204	Turbidity	NTU	7
ST-750	53501	APHA Hazen Color	Degrees	7
ST-765SS-FCL	53607	Free Chlorine + pH	ppm / pH	8
ST-765-CLO	53608	Chlorine Dioxide + pH	ppm / pH	8
ST-772	53703	Dissolved Oxygen + Temperature	ppm / °C / °F	8
ST-773	50709	Dissolved Oxygen	ppm	7

NOTE (1) The **7-exp** pin format is an IP-68 explosion proof format that is specific to Pyxis level sensors. To connect any Pyxis level sensor to NanoView UC-10, a **CS-MS-FE-13** (P/N: 18630) conversion adapter cable is necessary. Contact service@pyxis-lab.com for purchase details.

5. Dimension

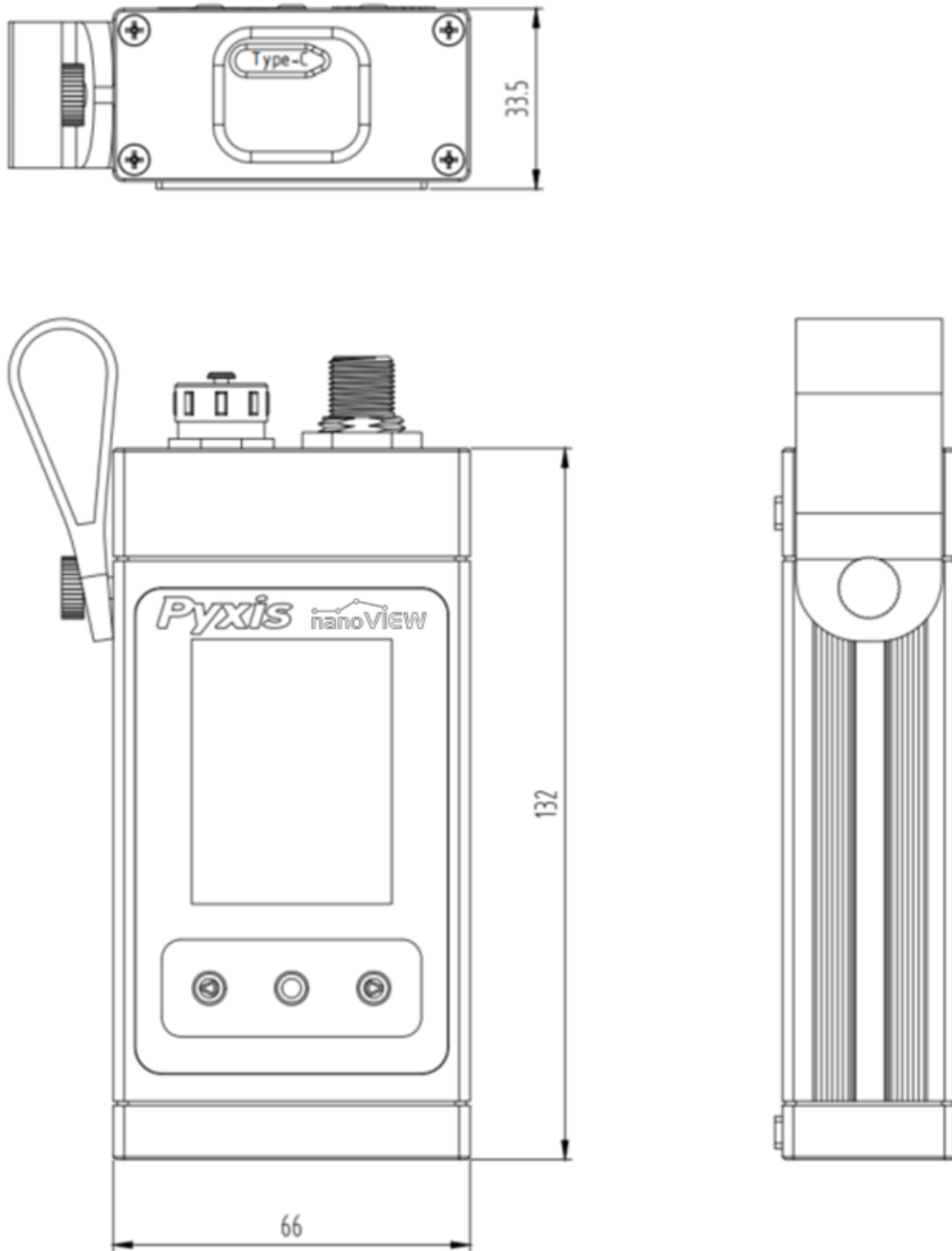


Figure 1. Dimensions, unit: mm

6. Product Overview



Figure 2. NanoView UC-10 Overview

5.1 Key Functions

There are three buttons at the bottom of NanoView UC-10 screen as shown in Figure 2. The ● button in the middle is used to turn NanoView UC-10 on/off, to confirm parameter changes or to enter setup menu. ◀ and ▶ buttons allow user to select different parameters in setup menu or to adjust the entered values.

5.2 NanoView UC-10 Turn On & Off

To TURN-ON the NanoView UC-10: Press ● momentarily and release.

To TURN-OFF the NanoView UC-10: Press and hold ● for about five seconds.

NanoView UC-10 will automatically go to sleep in 2 minutes without any operation and will automatically shut down after 20 minutes. Automatic shutdown time can be user altered in the **Screen Setting** page. Please refer to **Section 7.3.2**.

7. Electrical Connection

7.1 Connecting to a Pyxis Sensor

The NanoView UC-10 offers two connectors on the top of the device. These are specifically designed to connect to Pyxis 7 pin and 8 pin sensors only. Depending on sensor type, please align the plug on the sensor with the positioning notch of NanoView UC-10 when connecting, press it firmly and finally screw it down tightly being careful not to over tighten. The NanoView UC-10 will not supply power to the sensor when it is off and can only support connectivity to ONE sensor at a time. ***IMPORTANT NOTE*** Please be sure to be careful and properly align the pins of the sensor cable to its appropriate port to avoid damage.

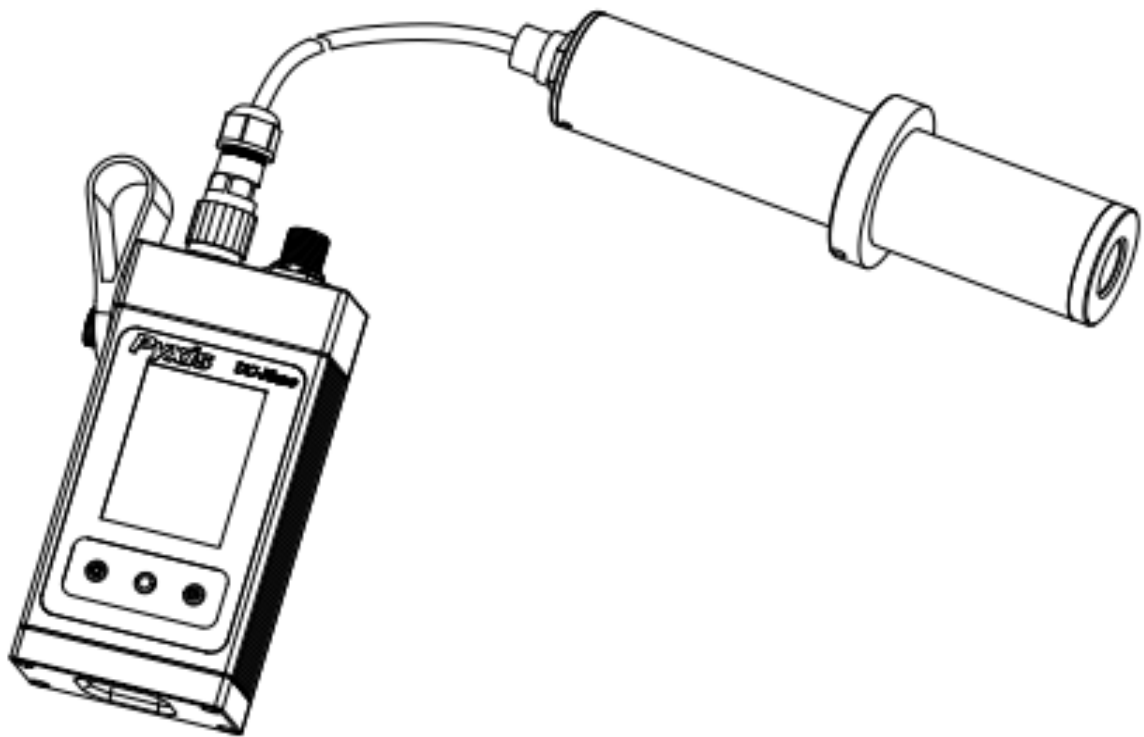


Figure 3. Connecting the sensor

7.2 Rechargeable Lithium Batter Life & Replacement

The NanoView UC-10 contains a 10,000 mAh rechargeable lithium-ion battery with a 6-month warranty. This battery should be considered a consumable and will have a limited lifespan dependent on many factors, such as frequency of use, charge cycles and user care (i.e., operating and storage temperature). Under normal use, this battery should provide 1-2 years of reliable service. Pyxis Lab does not provide or suggest in the field battery replacement for the NanoView UC-10. The unit may be returned to Pyxis Lab with a submitted RMA request for Pyxis factory battery replacement at a flat service fee. Please contact service@pyxis-lab.com for details.

7.3 Charging the NanoView UC-10

The NanoView UC-10 contains a built-in 10,000mAh lithium battery and should be charged by 5V/1A charger and will take **4-5** hours to be fully charged.

When charging, the figure marker in the upper right corner of the screen will scroll in green frame by frame based on the batteries charge. When the charging is complete, the figure marker will stop scrolling. While charging, remaining power is only a reference value, and NanoView UC-10 will normally become slightly warm. To prolong the lithium battery's service life, it is recommended to charge as necessary to avoid overcharging.



8. NanoView UC-10 Operation

7.1 Main Screen

After press ● to power on, NanoView UC-10 will scan for connected sensor and displays the sensor information— A **Searching Device.....** message will be displayed during this process.

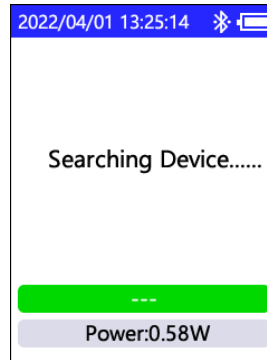


Figure 4. Sensor Searching Interface

NanoView UC-10 read will automatically read the sensor value after found. If NanoView UC-10 has connected successfully, the main screen will display the sensor name and main signal value as well as power consumption by the sensor. ***NOTE*** If an auxiliary signal is also measured, such as temperature, it will also display on the screen (Figure 5).

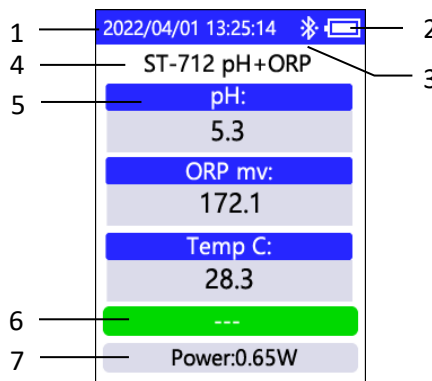


Figure 5. Main Screen

Main Page Display Description

NO.	Description
1	Date & Time
2	Battery Level & Charging Information
3	Bluetooth Status
4	Sensor Name
5	Measured Signal Name & Measured Value
6	Cleanliness Status (Fluorometers Only)
7	Real Time power Consumption of the Sensor

Common Troubleshooting Issues

1. If the NanoView UC-10 fails to connect to the sensor or the scan has timed-out, **Not Found** will be displayed (Figure 6). Disconnect / reconnect the sensor to ensure proper connectivity and retry the scan.

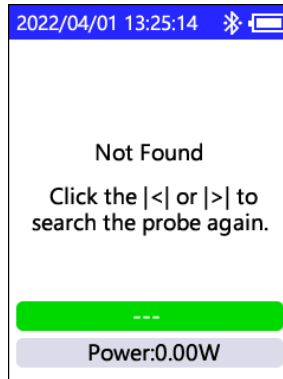


Figure 6. No Sensor Found

2. If an unsupported Pyxis sensor is connected, **Not Supported** and **Sensor PN** will be displayed (Figure 7). Please contact Pyxis at service@pyxis-lab.com to determine if the sensor has been added to a new firmware for NanoView UC-10.



Figure 7. Unsupported Sensor

3. If the Pyxis sensor is disconnected or poorly connected, the measurement values will not be displayed. Please check whether the connection between the sensor and NanoView UC-10 is secure.

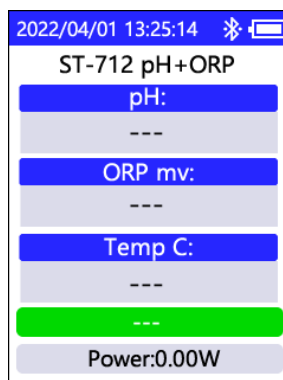


Figure 8. Sensor Connection Abnormality

7.2 Trend Chart

Main Screen \Rightarrow \blacktriangle or \blacktriangledown

Measured values will be displayed as a line graph to show the real-time trend. Press \bullet under the trend graph screen to switch measurement items. Press \blacktriangle or \blacktriangledown to return to the main screen.

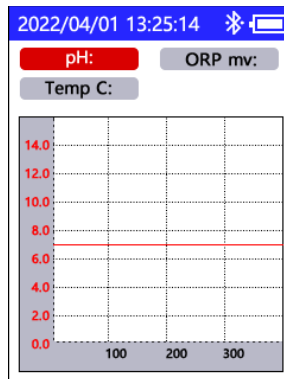


Figure 9. Trend Chart

7.3 System Settings

7.3.1 Adjusting the Date & Time

Main Screen \Rightarrow [Setup] \Rightarrow [Date & Time]

Press the \blacktriangleleft or \blacktriangleright to highlight a field (highlighted field is **BLACK**), then press \bullet to enter edit mode (edit mode is **BLUE**), press \blacktriangleleft or \blacktriangleright to adjust the date and time. Select **Exit** after finishing the changes. The NanoView UC-10 will exit the editing mode and save the settings.

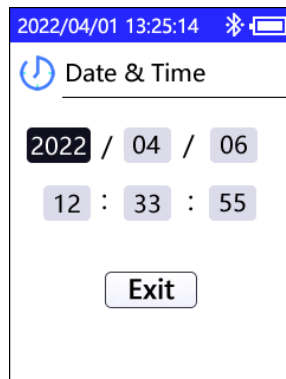


Figure 10. Time & Date Setting

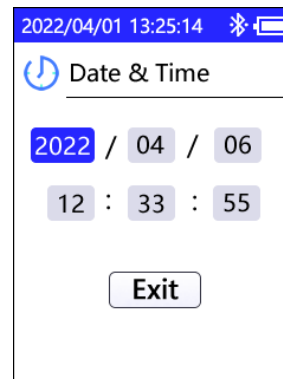


Figure 11. Editing Mode

7.3.2 Screen Setting

Main Screen ⇒ **[Setup]** ⇒ **[Screen]**

Users can adjust the screen Back-Light brightness, Dark-Time (Sleep) and Shutdown Time (Power Off) as needed. Press **▶** to highlight a field (highlighted field is **BLACK**), then press **●** to enter edit mode (edit mode is **BLUE**). Press **◀** or **▶** to adjust the value in edit mode. Once setting, select the **Exit** button to save the settings.

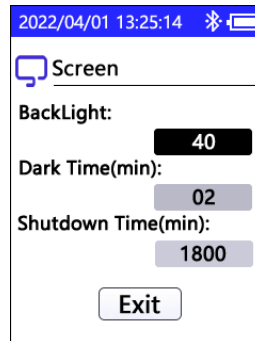


Figure 12 Screen Setting

7.3.3 Language Setting

Main Screen ⇒ **[Setup]** ⇒ **[Language]**

Press **▶** to select the language.

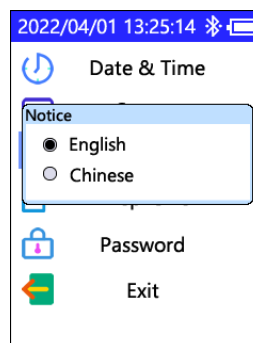


Figure 13. Language Setting

7.3.4 Display Orientation Setting

Main Screen ⇒ **[Setup]** ⇒ **[Display Orien]**

Press **▶** to Rotate the screen 180°.

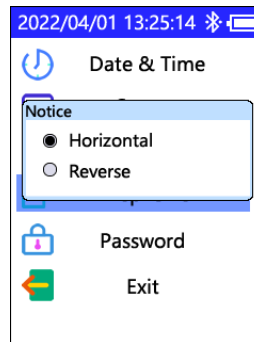


Figure 14. Display Orientation Setting

7.3.5 Calibration Password Setting

Calibration Password Setting Procedure.

1. Navigate to **Password** screen: **Main Screen** \Rightarrow **[Setup]** \Rightarrow **[Password]**
2. Enter your current calibration password (Figure 15).

Initial Default Password = 00000.

3. Press \blacktriangleright to highlight a field (highlighted field is **BLACK**), then press \bullet to enter edit mode (edit mode is **BLUE**). Press \blacktriangleleft or \blacktriangleright until the desired value is selected.
4. Once setting, Select the **OK** button to confirm the new password (Figure 16).

NOTE If you forget your password, an administrator password can be used.

Administrator Password = 400998.

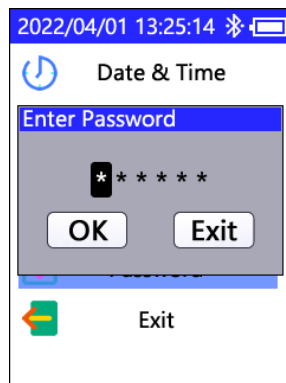


Figure 15. Enter Your Current Password

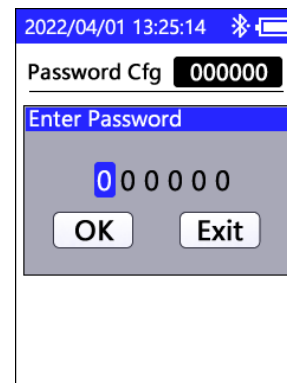


Figure 16. Modify Password

7.4 Data Collecting

7.4.1 Data Overview

Main Screen ⇒ [Datalog] ⇒ [View Datalog]

Press ◀ or ▶ to select the specific day you want to check, and press and hold ● for two seconds to confirm.

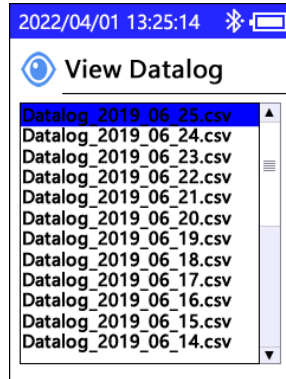


Figure 17. Datalog List

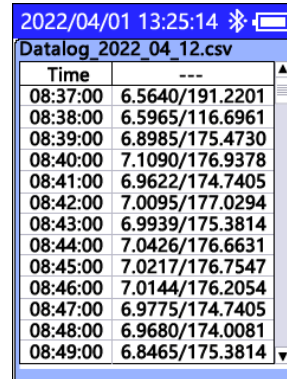


Figure 18. View Datalog

Press ◀ or ▶ to scroll up and down to check data (Figure 18). The NanoView UC-10 saves data every minute by default, including the current time, the sensor's main measurement and auxiliary measurement. The NanoView UC-10 displays historical data in the form of a data table, supporting up to one year of historical data storage. Users can check the NanoView UC-10 data storage information on PC, refer to **Section 7.7 -- USB Operation**.

7.4.2 Clear Datalog

Main Screen ⇒ [Datalog] ⇒ [Clear Datalog]

Press ◀ to select OK to confirm data erased.

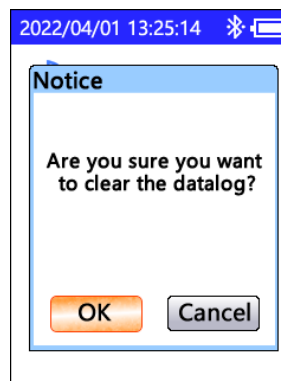


Figure 19. Clear Datalog

7.5 Sensor Operation

7.5.1 Sensor Calibration

Pyxis sensors are rigorously calibrated before leaving the factory. Users can however calibrate the sensor according to their application needs. ***NOTE*** This section uses pH-mid calibration as an example to describe the ST-712 (pH + ORP) sensor calibration function.

pH-7 Calibration Procedure

1. Remove and place the sensor in the pH 7.0 standard solution, measure for 1 minute and wait for the measurement result to stabilize.
2. Navigate to **Calibration** screen: **Main Screen** \Rightarrow **[Probe Option]** \Rightarrow **[Probe CAL]**
3. Enter the calibration password (initial password = 00000).
4. Select **pH7 Cal** in **Sensor Calibration** screen and click the **OK** button to start the pH7 calibration.

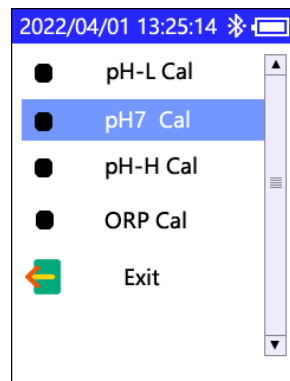


Figure 20. Select Cal Methods

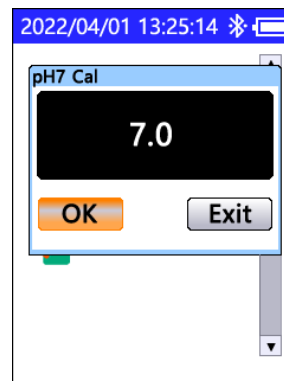


Figure 21. Edit Calibration Value

5. If the calibration was successful, the interface will return a message "Succeeded".

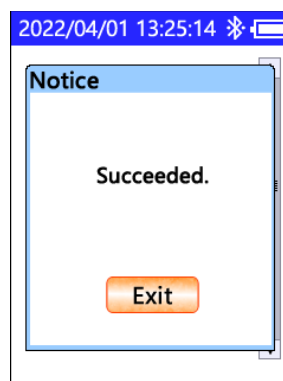


Figure 22. Calibration Success

Incorrect Calibration

Should the result of the calibration lie outside the specified tolerance limits, an error message will appear. Check the prerequisites for the calibration and clear the error. Then repeat the calibration.

7.5.2 Sensor Information

Main Screen ⇒ **[Probe Option]** ⇒ **[Probe Info]**

From **Sensor Information** screen, the user can view sensor Modbus address, serial number, and software version.

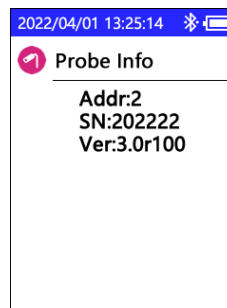


Figure 23. Sensor Information

7.6 NanoView UC-10 Device Information

7.6.1 Accessing the NanoView UC-10 Device Information

Main Screen ⇒ **[Device Option]** ⇒ **[Device Info]**

From the **Device Information** screen, user can view NanoView UC-10 hardware version, software version, and memory usage.

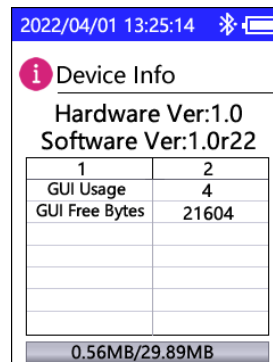


Figure 25. Device Information

7.6.2 NanoView UC-10 Device Firmware Upgrade

NanoView UC-10 Device Firmware Upgrade Procedure

1. Navigate to **Device Upgrade** screen: *Main Screen* ⇒ [*Device Option*] ⇒ [*Device Upgrade*]
2. Press all three buttons at the same time to enter the program upgrade screen (Figure 27).



Figure 26.



Figure 27.

3. Connect a USB Type-C cable to the port at the bottom of the NanoView UC-10 and to the USB port of the laptop or computer. Once connecting, the interface will return a message “The USB Host is connected” (Figure 27).
4. Find the **Bootloader Drive** on their PC desktop. Copy and paste the NanoView UC-10 new firmware(.bin) to the Bootloader Drive (Figure 28).

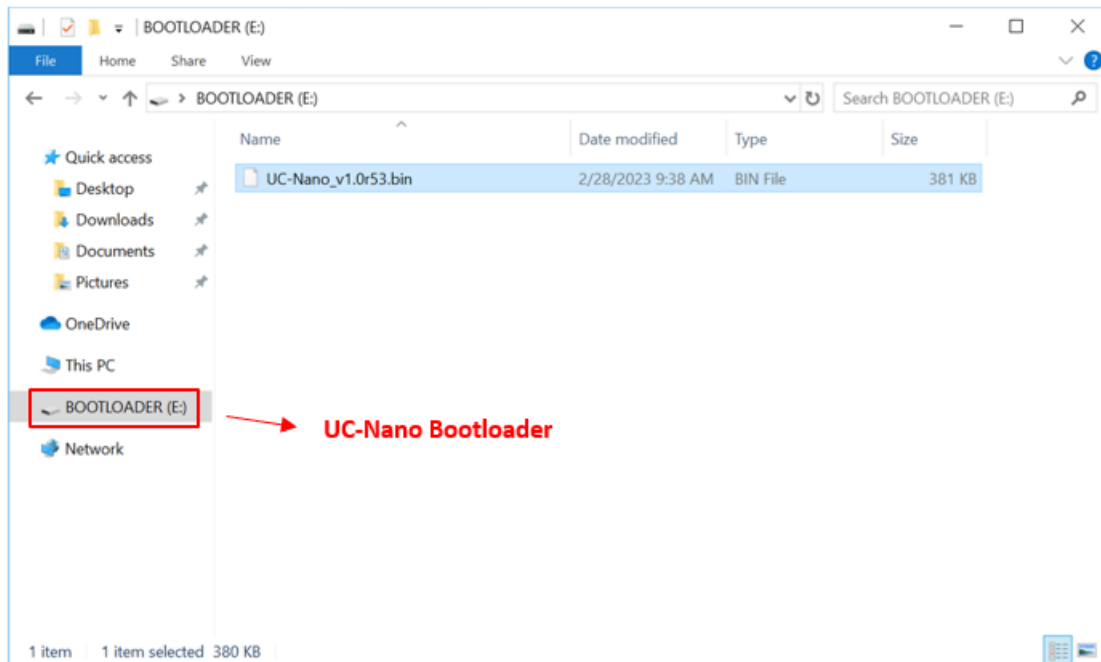


Figure 28. NanoView UC-10 Bootloader

5. Disconnect the NanoView UC-10 from the computer after copied successfully.
6. Press and hold ● for 5 seconds to shut down the NanoView UC-10.
7. Press ● momentarily and release to turn on the NanoView UC-10, device update complete.

7.7 USB Operation

7.7.1 Export Historical Data & Store Sensor Update Firmware

The computer will recognize the internal 32MB Flash of NanoView UC-10 as a USB flash drive. Users can directly access the NanoView UC-10 files stored for data export and firmware upgrade by the following steps.

1. Connect a USB Type-C cable to the port at the bottom of the NanoView UC-10 and to the USB port of the laptop or computer.



Figure 29. NanoView UC-10 Connected to Computer & Laptop

2. Set the NanoView UC-10 to operate in USB Mode.

Navigate to **USB Operation: Main Screen** ⇒ **[USB]**

3. There is a **Sensor Firmware** folder in the internal storage of NanoView UC-10 (Figure 30), which is used to store the upgraded firmware of the sensor, and sensor data information recorded is stored in the root directory (named in the format of datalog + date). Users can export or delete historical data as needed.

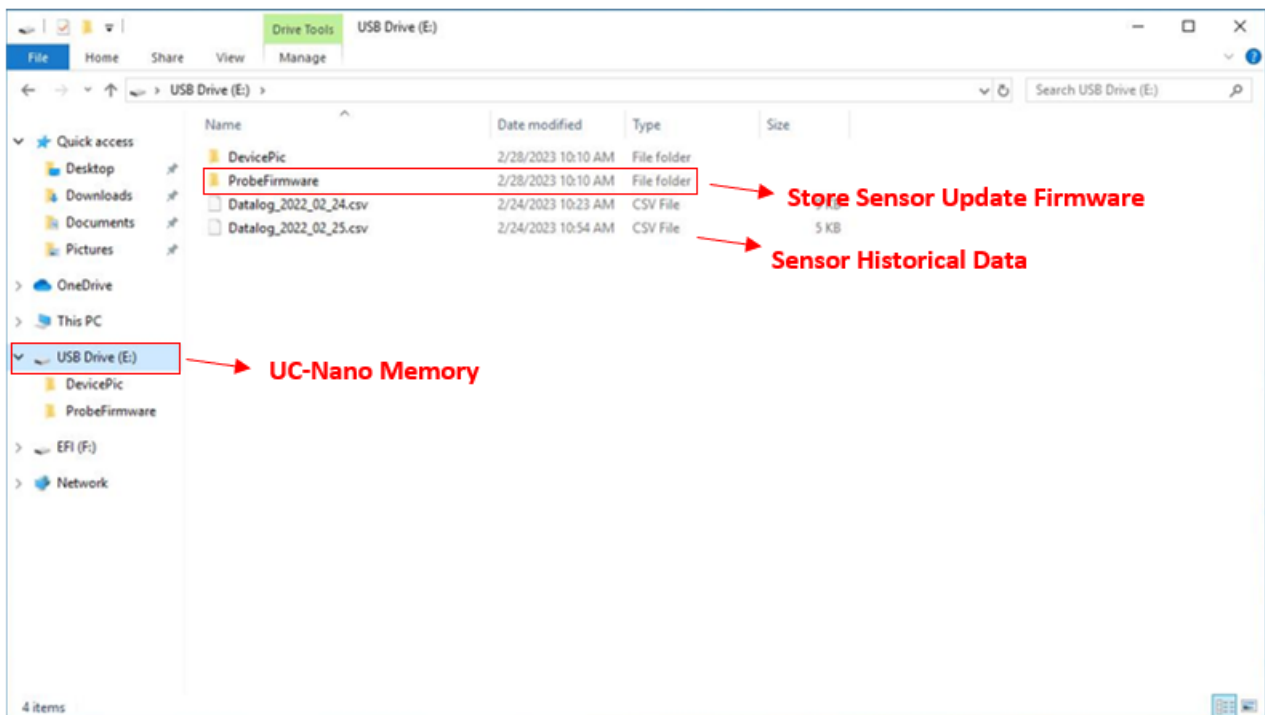


Figure 30. NanoView UC-10 Virtual USB Flash Drive

7.7.2 Sensor Firmware Upgrade

Sensor Firmware Upgrade Procedure

1. Please refer to **Section 7.7.1** download the sensor new firmware (.bin) to the NanoView UC-10 internal 32MB Flash.
2. Navigate to **Sensor Upgrade screen: Main Screen** \Rightarrow **[Probe Option]** \Rightarrow **[Probe Upgrade]**
3. NanoView UC-10 will automatically recognize the name of the imported firmware (Figure 31).
4. Loosen the connector of the sensor cable. Select **Upgrade** in **Sensor Upgrade screen**, then select **OK** in pop-up confirmation box (Figure 32).

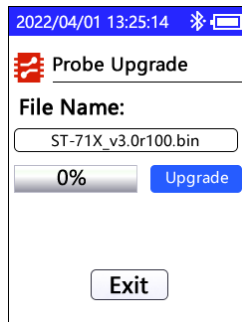


Figure 31. Sensor Upgrade

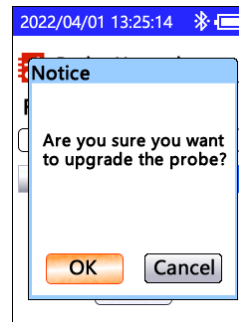


Figure 32. Confirm Upgrade

5. Disconnect the sensor for 3 seconds minimum then reconnect the sensor.

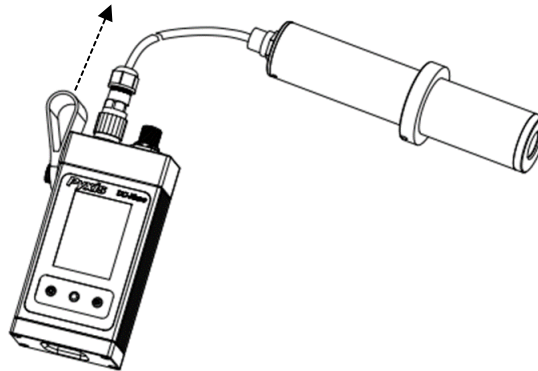


Figure 33. Unplug & Reconnect Sensor

6. Wait for the progress bar to show 100%, select **Exit** to finish the upgrade process.

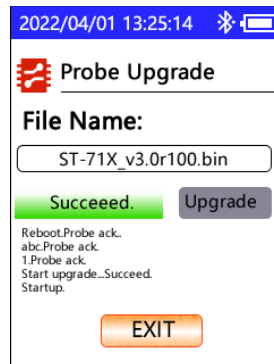


Figure 34. Upgrade Success

8. Sensor Operation by uPyxis Mobile App via BlueTooth

Download and install the uPyxis app from **Apple Store** or **Google Play**. Turn on the Bluetooth in the smart device (please do not pair your device Bluetooth to uPyxis, the app will do the pairing). Open the uPyxis app in the device. Swipe down to refresh the screen to scan the available Pyxis Bluetooth devices. The discovered devices will be listed as shown in *Figure 35 below*.

Tap the discovered ST-712 sensor to connect to the sensor. The uPyxis app can identify the sensor type if multiple Pyxis sensors are discovered in the scan.

NOTE To be able to use the uPyxis App, you need to turn on your phone's Bluetooth and location permission.

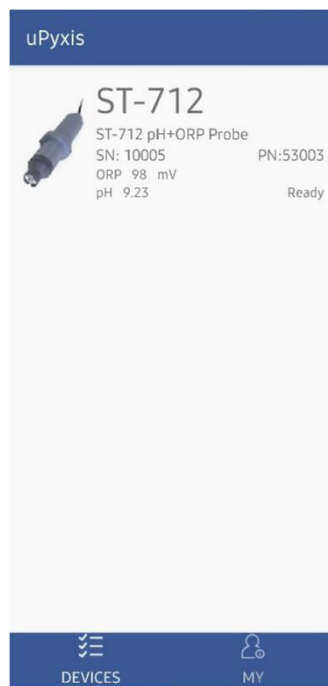


Figure 35. ST-712 Discovered via Bluetooth

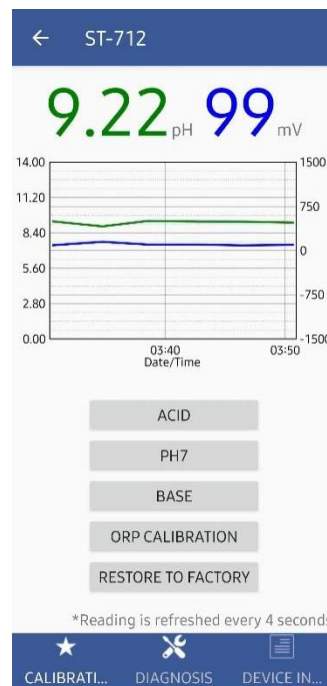


Figure 36. Calibration Page

NOTE The uPyxis APP and NanoView UC-10 cannot be display the sensor interface data at the same time (Figure 37).

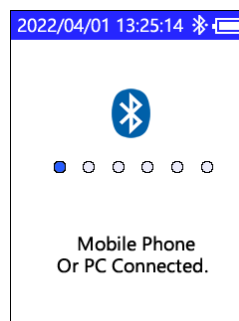


Figure 37. Sensor Connected by uPyxis

9. Sensor Operation by uPyxis Desktop App via USB

1. Download and install uPyxis Desktop APP from on your PC.
<https://upyxis.pyxis-lab.com.cn/release/pc/uPyxis.Setup-latest.zip>
2. Connect a USB Type-C cable to the port at the bottom of the NanoView UC-10 and to the USB port of the laptop or computer. Connect the NanoView UC-10 to the ST-712 sensor.
3. Please set the NanoView UC-10 to operate in USB Mode.

Navigate to **USB Operation: Main Screen** → **[USB]**

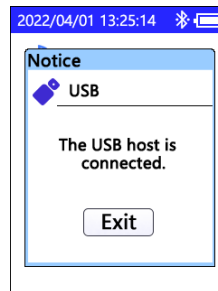


Figure 38. USB connected

4. Open the desktop uPyxis APP.
5. Click **Device** to launch the connection option menu and select **Connect via USB-RS485** (Figure 39).
6. Select the **Comm Port** to make a connection. Normally only one Comm port is identified by uPyxis (Figure 40). If more than one Comm port listed in the selection dropdown, you may try to select each one to see if a connection can be made. Alternatively, you may use the Windows Device Manager to identify the Comm Port that the Pyxis USB adapter is using.

After the connection is established, the ST-712 sensor series number and pH & ORP reading will be displayed on the left of the page. Click Calibration to launch the calibration page (Figure 41).

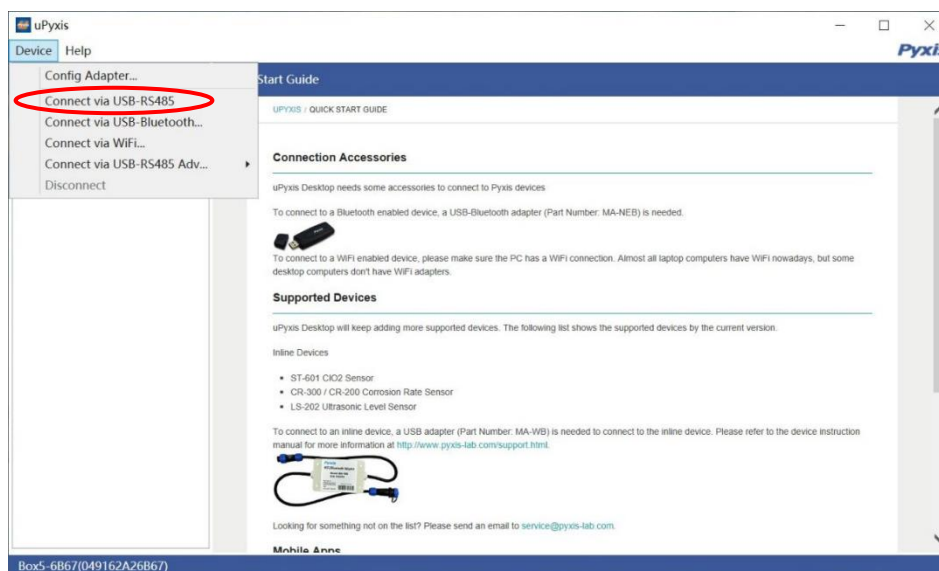


Figure 39. Connection Options

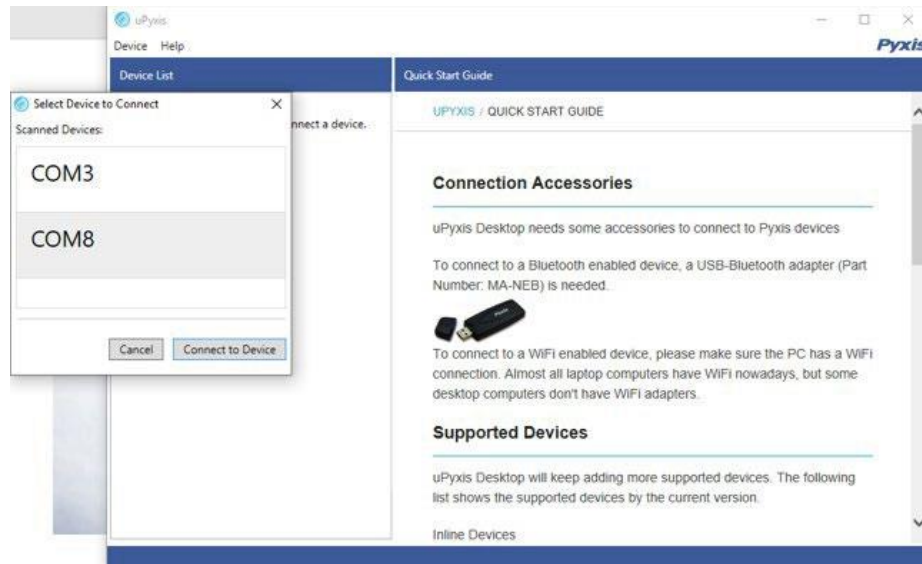


Figure 40. Select a Comm Port

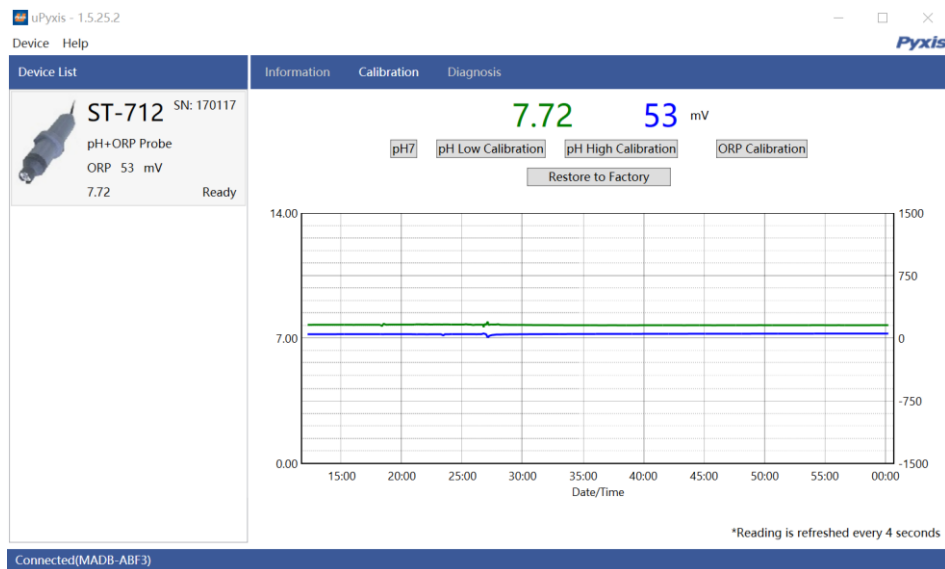


Figure 41. Connect to ST-712 Sensor

10. Contact Us

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