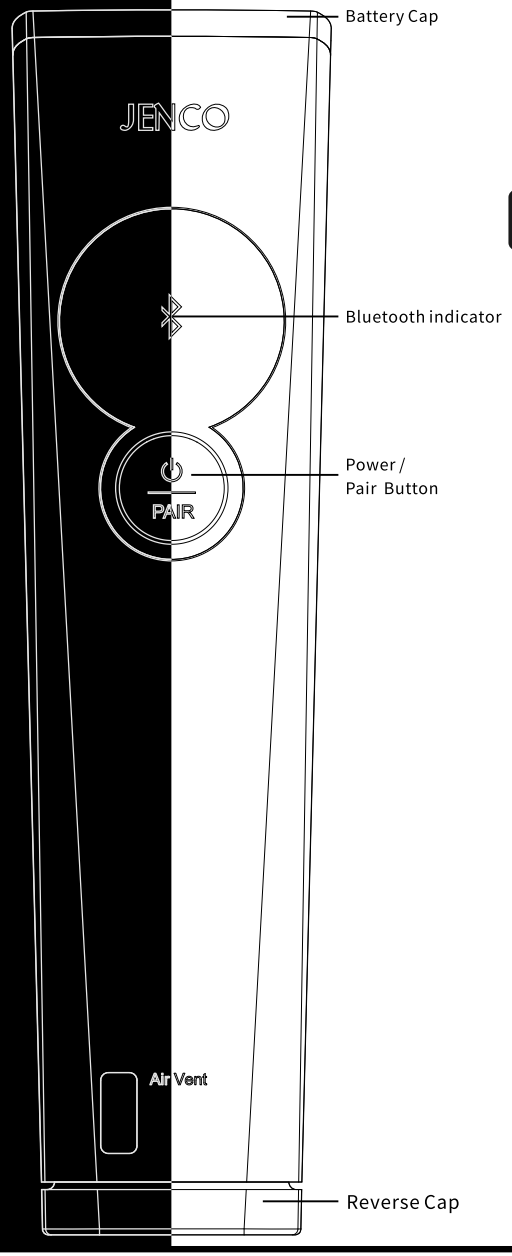
Bluetooth Wand Manual



Getting Started

Thank you for entrusting Jenco for your water quality measurements. Please follow the steps below to start using your Wand tester.

1 Activate the electrode of the pH or ORP Wand by soaking it in buffer 4 solution about **0.5-2 hours** or activate the electrode of the Conductivity Wands by soaking it in distilled water for **0.5-2 hours**.

2 Download the companion app for your Wand tester from the Apple Store or Google Play Store.

Available on the App Store

Download on Baidu App Store

Get it on Google play

Below are the available apps listed with their corresponding Wand testers:

APP Name	Corresponding testers
Jenco Wand pH App	pH610B pH / temperature
Jenco Wand ORP App	ORP650B ORP / temperature
Jenco Wand Conductivity App【EC110B】	EC110B conductivity / salinity / TDS / temperature【0 to 2000 µS/cm】
Jenco Wand Conductivity App【EC111B】	EC111B conductivity / salinity / TDS / temperature【0.00 to 20.00 mS/cm】
Jenco Wand Conductivity App【EC115B】	EC115B conductivity / salinity / TDS / temperature【0.0 to 100.0 µS/cm】
Jenco Wand TDS App	TDS110B TDS / temperature

Please note Jenco offers Basic and Pro editions of the apps listed above:

BasicEdition	Pro Edition
• Display primary measurement and temperature • Display reading quality (pH only) • Display battery life • Guided calibration • Customize displays and readings	• All features of the Basic Edition • Save readings with GPS information • Share saved readings to other apps • View calibration history

Continue to the next step after the correct app is installed to your smartphone.

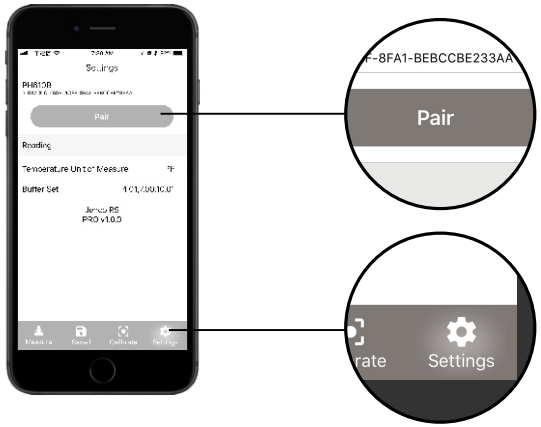
3 Install two AAA batteries by removing and then replacing the battery cover, ensuring the polarity is correct.

4 Press the On button to turn on the Wand tester.

Two quick consecutive, repeating blinks of the Bluetooth light indicates the Wand tester is on and is in the pairing mode.

5 Pair the Wand tester to your smartphone.

- Tap on the Settings tab at the lower right of the app screen.
- Tap on the Pair button.
- When the app discovers and displays your Wand tester, tap the Connect button. Single repeating blink of the Bluetooth light indicates the Wand tester is on and is in reading mode.



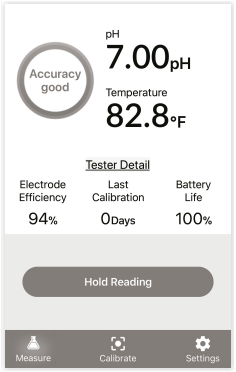
After the app has been installed, calibrate your Wand to ensure the best reading quality.

General App Navigation

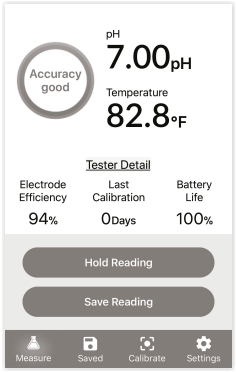
Measure Screen

The Measure Screen displays measurement readings, electrode health (app for model pH610B only), days since last calibration and remaining battery life of the Wand tester.

Basic



Pro



From this screen you can tap the Hold Reading button to freeze or unfreeze the readings, or tap the Save Reading button to save the current readings for future use. The save reading feature is available in the Pro edition.

Saved Readings Screen (Pro edition only)

The Saved Reading Screen displays a listing of reading values saved to the app, and provides access to view saved reading detail information such as timestamp, GPS and notes. **(Fig.1)**

Calibration Screen

The Calibration Screen displays past calibration data. From this screen you can tap the Calibrate button and follow the step-by-step instructions to calibrate your Wand tester. **(Fig.2)**

※The past calibration data listing feature is available in the Pro edition.

Settings Screen

The Settings Screen displays the various settings that affects the measurements of the Wand tester. **(Fig.3)**

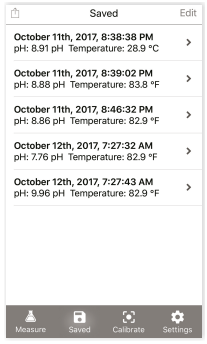


Fig.1

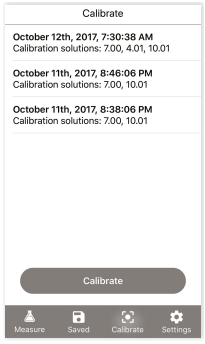


Fig.2

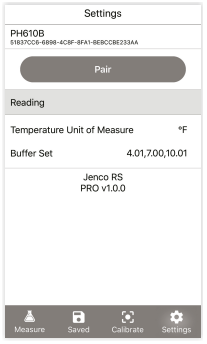


Fig.3

Key Operations

Take Measurements

1. Tap the Measure tab in the navigation bar.

Calibrate

1. Tap the Calibrate tab in the navigation bar.
2. Tap the Calibrate button.
3. Follow the on-screen instructions.

Save Readings

1. Tap the Measure tab in the navigation bar.
2. Tap the Save Reading button.

View Saved Readings and Add Notes to Saved Readings

1. Tap the Saved tab in the navigation bar.
2. Saved readings are displayed. Tap on a saved reading to view its detail information.
3. From the saved reading detail screen, tap the Notes field to add notes.
4. Tap the back (<) button to save and exit the detail screen.

Share Saved Readings

1. Tap the Saved tab in the navigation bar.
2. Saved readings are displayed. Tap the Share icon on the upper left area of the screen.
3. Tap to check the saved readings you want to share.
4. Tap Send on the upper right corner of the screen.
5. Tap to select the app to receive the selected saved readings.

Delete Saved Readings

1. Tap the Saved tab in the navigation bar.
2. Saved readings are displayed. Tap Edit on the upper right area of the screen.
3. Tap to check the saved readings you want to delete.
4. Tap Done on the upper right corner of the screen.

View and Change Settings

1. Tap the Settings tab in the navigation bar.
2. Tap the value for the setting you wish to change.
3. For EC110B, EC111B, EC115B and TDS110B model, click the Save button to save changes.
4. For pH610B and ORP650B, click the back (<) button to save changes.

Pair Wand Tester to App

1. Make sure the Wand tester is in the pairing mode.
2. Tap the Settings tab in the navigation bar.
3. Tap the Pair button.
4. Wait for the app to discover the Wand tester.
5. Tap the Connect button.

Put Wand tester Into Pairing Mode

1. Make sure all apps that were previously paired to Wand tester are closed.
2. Wand tester will enter pairing mode when no apps are connected to it.

Troubleshoot

The app is running and the Wand is on, but for some reason they won't connect

If the smartphone's Bluetooth is turned on, and the app continues to display the reconnecting indicator message, close the app and launch it again to force the app to connect to the Wand tester.

During calibration, I keep getting the message to retry a step

First check to make sure the calibration solution is fresh and there the electrode end of the tester is unimpeded. If this problem persists, it is likely because the electrode on the tester has aged beyond usefulness. Please contact your distributor for a new purchase.

I can't calibrate my tester and the electrode efficiency is below 70%(pH610B only)

As the reference solution is used up and as the reference junction ages, the electrode efficiency decreases. When the electrode efficiency drops below 70%, the pH Wand can no longer be properly calibrated and the tester must be replaced. During measurements, the pH electrode works by enabling a controlled release of the reference solution through the reference junction, and this is the reason that the useful life of a pH electrode depends on the frequency of use and on the condition which the electrode is stored.

Reading displays OVER or UNDER

The solution you are measuring has a measurement that is over (OVER) or under (UNDER) the allowable range for the Wand tester.

Cannot put the tester into pairing mode

One Wand tester can be paired to only one app at a time. To put an already-paired tester into pairing mode, you must first close the app it is paired to.

Electrode Maintenance

In between use, protect the pH electrode on the pH Wand by saturating the sponge inside the cap with distilled water and placing the cap back on the tester. If the tester is unused for more than 7 days, before taking measurements activate the electrode of the pH and ORP Wand by soaking it in buffer 4 solution for **0.5-2 hours** or activate the electrode of the Conductivity Wands by soaking it in distilled water for **0.5-2 hours**.

Specs

	pH610B	ORP650B	TDS110B
Parameters	pH & Temp	ORP & Temp	TDS & Temp
Range	0.00~14.00pH	±1000mV	0~4000mg/L
Resolution	0.01pH	1mV	20mg/L
Accuracy	±0.05pH	±1% F.S.	±1% F.S.
Temp Range	0.0~50.0°C (32 .0~122.0°F)		
Temp Resolution	0.1°C / 0.2°F		
Temp Accuracy	±0.5°C / ±1°F		
Input Impedance	$3X10^{11}\Omega$	NA	
TDS Factor	NA		0.3 to 1.0
Electrode	Gel-filled, single junction		Titanium rods
Battery life	100hrs		

	EC110B	EC111B	EC115BB
Parameters	Cond& TDS & Salt Temp	Cond& TDS & Salt Temp	Cond& TDS & Salt Temp
Range	0~2000 µS/cm(Cond) 0~2000 mg/L(TDS) 0~1000 ppm (mg/L)(Salt)	0.00~20.00 mS/cm(Cond) 0.00~20.00 g/L(TDS) 0.00~10.00 ppt (g/L)(Salt)	0.0~100.0uS/cm(Cond) 0.0~100.0mg/L(TDS) 0.0~50.0 ppm (mg/L) (Salt)
Resolution	10 uS/cm(Cond) 10 mg/L(TDS) 5 ppm (mg/L)(Salt)	0.10 mS/cm(Cond) 0.10 g/L(TDS) 0.05 ppt(g/L)(Salt)	0.5 uS/cm(Cond) 0.5 mg/L(TDS) 0.3 ppm(mg/L)(Salt)
Accuracy	±1% F.S.	±1% F.S., <10mS/cm(Cond) ±2% F.S.≧10mS/cm(Cond) ±1% F.S., <10g/L(TDS) ±2% F.S.≧10g/L(TDS) ±1% F.S., <5ppt(g/L)(Salt) ±2% F.S.≧5.00ppt(g/L)(Salt)	±1% F.S.
Temp Range	0.0~50.0°C (32 .0~122.0°F)		
Temp Resolution	0.1°C / 0.2°F		
Temp Accuracy	±0.5°C / ±1°F		
TDS Factor	0.3 to 1.0		
Electrode	Titanium rods		
Batterylife	100hrs		

Warranty

Jenco warrants this product to be free from significant deviations in material and workmanship for a period of 1 year from date of purchase. If repair or adjustment is necessary and has not been the result of abuse or misuse, within the year period, please return-freight-prepaid and the correction of the defect will be made free of charge. If you purchased the item from our Jenco distributors and it is under warranty, please contact them to notify us of the situation. Jenco Service Department alone will determine if the product problem is due to deviations or customer misuse.

※Out-of-warranty products will be repaired on a charge basis.

About Jenco

Jenco is a family-operated manufacturer with 45 years of specialization in designing and producing water quality instruments. For more information about the Wand tester or other Jenco products, please visit **https://jencoi.com**