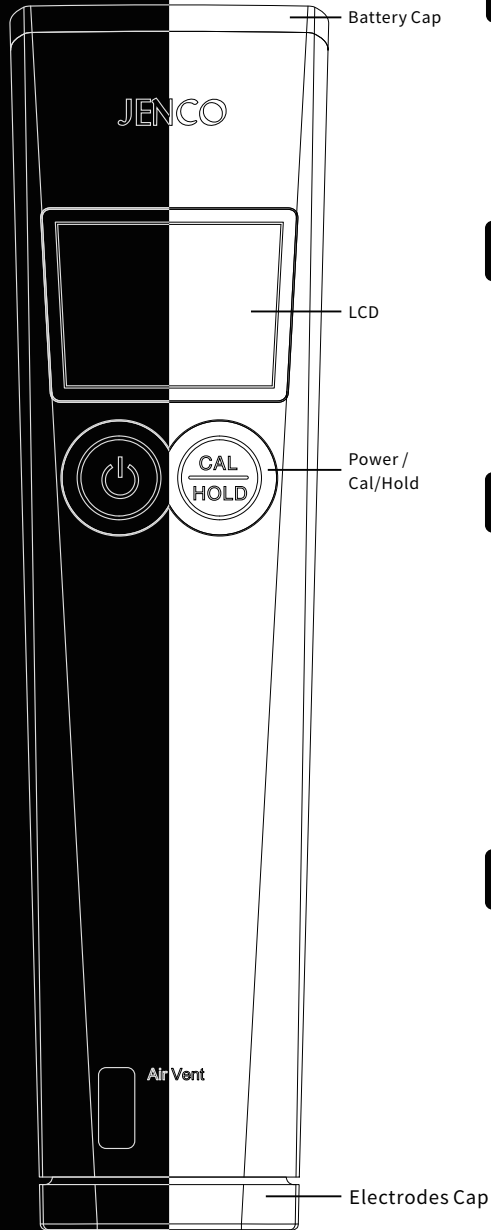


Operation Manual



Getting Started

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

1 Activate the electrode of the tester by soaking it in distilled water for about 0.5-2 hours

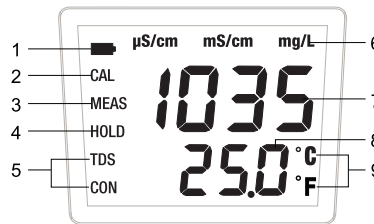


2 Install four LR44 batteries by removing, properly inserting the batteries and then replacing the battery cover



3 LCD Display

- (1) Low Battery indicator
- (2) Calibration mode indicator
- (3) Measure mode indicator
- (4) Display Hold indicator
- (5) Conductivity / TDS mode indicator
- (6) Conductivity / TDS unit indicator
- (7) Conductivity / TDS reading
- (8) Temperature reading (for °C)
- (9) Temperature reading (for °F)



4 Understand the 3 operation modes

【 Measure Mode 】

Measure Mode is used to make all conductivity, TDS and temperature measurements.

【 Calibration Mode 】

Calibration Mode is used to perform 1 point conductivity calibration.

【 Hold Mode 】

Hold Mode is used to hold and lock the display at the most recent measurement values. Once in Hold Mode, the tester can be removed from the measuring solution without affecting the displayed measurement values.

5 Understand keypad operations

| Key | Initiating Mode | Action | Function |
|------------|-----------------|------------------------------|-------------------------------------------------------------------------------------|
| CAL / HOLD | Measure | Press and hold for 2 seconds | Enters Calibration Mode |
| | | Press and release | Holds display with or releases the display from the most current measurement values |
| | Calibration | Press and release | Exits Calibration Mode |
| On / Off | Power On | Press and release | Switches from °C to °F and vice versa |
| | | Press and hold for 3 seconds | Power Off |
| | Power Off | Press and release | Power On |

6 Turn the tester on

1. Press the "On/Off" key to turn on the tester.



【 Note 】 The tester will automatically turn off after 10 minutes last keypad use.

7 Calibrate

1. Remove the electrode cap of the instrument and rinse the electrode & ATC assembly in distilled water.
2. Immerse electrode assembly into the standard solution. Use the following table to determine the right standard solutions for your tester.

| Model | Standard Solution |
|---------------------|----------------------------------------------------|
| COND110N or TDS110N | 1413 uS/cm or 707 mg/L |
| COND115N or TDS115N | 14.9 uS/cm or 7.5 mg/L |
| COND111N or TDS111N | 1413 uS/cm or 707 mg/L ; 12.9 mS/cm or 6.45 g/L |

3. Note the temperature displayed is the temperature of the standard solution.
4. Press the "Cal" button for 2 seconds to enter the calibration mode. Conductivity or TDS value of the standard solution and "Cal" indicator is displayed.
5. Calibration data will automatically be stored when the measurement values are stable.
6. Calibration is complete.

8 Measure

1. From "Measure Mode", dip the electrode end of the tester into the test solution.



9 Hold Data

1. When the conductivity or TDS reading is stable, press "Hold" key once to hold and lock the display to the latest measurement values.
2. Press "Hold" key again to release and unlock the display and the tester returns to "Measure Mode". The unit is now ready for another measurement.

Error Displays and Troubleshooting

| LCD Display | Temp Display | Display Mode | Possible Cause(s) [Action(s)] |
|-------------|----------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "ovr" | "ovr" | Measure | Temperature > 50.0 °C (122 °F) [Bring solution to a lower temperature] |
| "udr" | "udr" | Measure | Temperature < 0.0 °C (32.0 °F) [Bring solution to a higher temperature] |
| "ovr" | 0.0~50.0 °C 32.0~122 °F | Measure | Measurement for conductivity or TDS is out of range. [Tester : Recalibrate with standard solutions and take the measurement again. If the readings are out of range, contact vendor] |
| "Err" | Not displayed | Calibration | Temperature exceed 0.0~50.0 °C (32.0~122 °F) temperature compensation range. [Bring solution to a lower temperature] |
| | 0.0~50.0 °C 32.0~122 °F | | Correction of slope beyond 50% [Calibrate with new standard solutions or replace the tester] |

Specifications

| | COND110N / TDS110N | COND115N / TDS115N | COND111N / TDS111N |
|----------------------------------|--------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
| Parameters | COND / Temp TDS / Temp | COND / Temp TDS / Temp | COND / Temp TDS / Temp |
| Range | 0-2000 uS/cm (Cond) 0-2000 mg/L (TDS) | 0.0-100.0 uS/cm (Cond) 0.0-50.0 mg/L (TDS) | 0.00-20.00 mS/cm (Cond) 0.00-10.00 g/L (TDS) |
| Resolution | 10 uS/cm (Cond) 10 mg/L (TDS) | 0.5 uS/cm (Cond) 0.3 mg/L (TDS) | 0.10 mS/cm (Cond) 0.05 g/L (TDS) |
| Accuracy | ±1 % FS | | ±1 % F.S. (≥ 10 mS/cm or ≥ 5.00 g/L ±2 % F.S.) |
| Temp. Range | 0.0~50.0 °C or 32.0~122.0 °F | | |
| Temp. Resolution | 0.1 °C or (≤ 99.9 °F, 0.2 °F; > 99.9 °F, 1 °F) | | |
| Temp. Accuracy | ±0.5 °C or ±1 °F | | |
| TDS Constant | 0.5 | | |
| Power | LR44 x 4 | | |
| Battery Life | > 100 hours | | |
| Ambient Temperature Range | 0.0~50.0 °C or 32.0~122.0 °F | | |
| Waterproof | IP67 | | |
| Dimensions | 163 x 43 x 20 mm | | |
| Weight | 71 g | | |

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>