

RHT80BT

Dew Point/Wet Bulb Psychrometer with Bluetooth



Introduction

Welcome, and congratulations on your purchase of the Triplet RHT80BT. This portable temperature and humidity meter features a high-definition display and a precision sensor that provides fast and accurate readings of ambient temperature and humidity. The meter also calculates dew point and wet bulb temperature, and records maximum and minimum values. Users can easily switch between measurement modes using the front panel buttons.

The instrument includes an automatic power-off function (which can be disabled when needed) and a convenient backlight for clear viewing in low-light environments. Equipped with Bluetooth 4.0 technology, it can transmit real-time measurement data directly to a smartphone for easy monitoring and data management using the Triplet MeterRead App.

What's in the box:

- RHT80BT Dew Point/Wet Bulb Psychrometer with Bluetooth
- (1) 9V Alkaline Battery
- User Manual

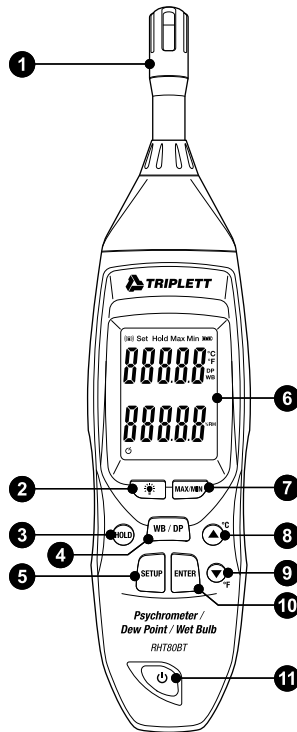
Stay updated:

For the most recent version of the user manual, always visit the official Triplet website: www.triplett.com and search for **RHT80BT**.

Description

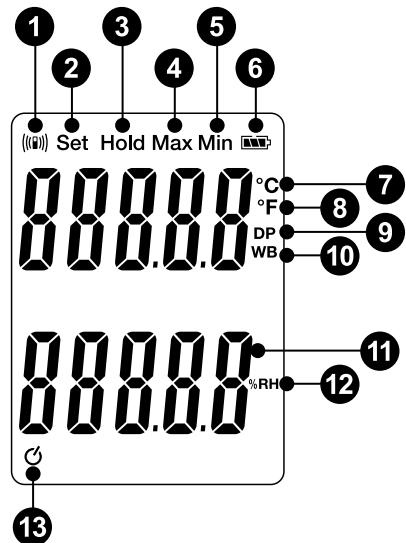
Meter Description

1. Temp and Humidity Sensor
2. Backlight Button
3. Hold Button
4. Wet Bulb/DP Button
5. Setup Button
6. LCD Display
7. MAX/MIN Button
8. °C/Up Button
9. °F/Down Button
10. ENTER Button
11. Power ON/OFF Button



LCD Display Description

1. BT Icon
2. SET settings icon
3. HOLD icon
4. Max Temp Icon
5. Min Temp Icon
6. Battery Status Icon
7. °C Icon
8. °F Icon
9. DP (Dew Point) Icon
10. WB (Wet Bulb) Icon
11. Current Humidity Value
12. RH% Icon
13. Auto Power OFF Icon



Operation

Getting Started

Power On/Off

- Press the Power button once to turn the meter ON or OFF.

Backlight

- Press the Backlight button to turn the display backlight ON or OFF for easier viewing in low-light environments.

Switching Temperature Units

- Press the °C button to display temperature in Celsius (°C).
- Press the °F button to display temperature in Fahrenheit (°F).

MAX/MIN Mode

- Short press the MAX/MIN button to cycle between displaying the maximum ("MAX") and minimum ("MIN") recorded temperature and humidity values.
- When MAX is displayed, the screen shows the highest recorded values. When MIN is displayed, it shows the lowest recorded values.
- Continue short pressing to toggle between them.
- Press and hold the button to exit MAX/MIN mode.
- When the meter is powered off, all MAX/MIN values reset to the current measurement when turned on again.

Data Hold

- Press the HOLD button to freeze the current temperature and humidity readings on the display. Press again to return to normal real-time measurement mode.

Dew Point and Wet Bulb Display

- Short press the WB/DP button to toggle between Wet Bulb (WB) and Dew Point (DP) temperature displays.
- When WB appears, the screen shows the wet bulb temperature.

- When DP appears, the screen shows the dew point temperature.
- Continue short pressing to cycle between them.
- Press and hold to exit WB/DP display mode.

Enabling Bluetooth (BT) Function

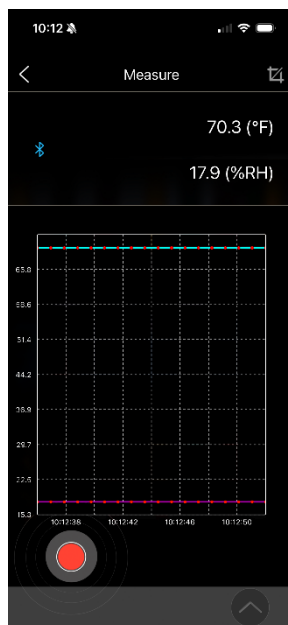
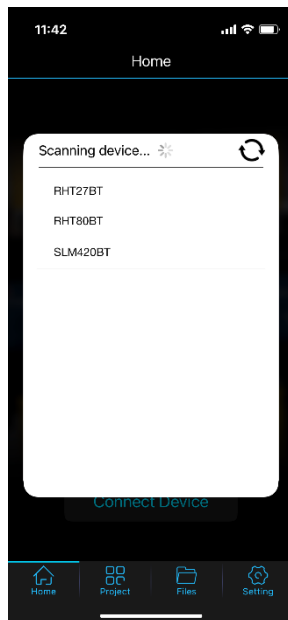
- Short press the SETUP button. The LCD will display SET and BT, along with the current Bluetooth status (ON or OFF).
- Short press again to toggle between ON and OFF.
- When ON is displayed, press the ENTER button to confirm. The meter will enter Bluetooth mode, indicated by the BT icon on the display.

Disabling Bluetooth (BT) Function

- Short press the SETUP button until SET and BT appear.
- Short press again until OFF is displayed.
- Press ENTER to confirm and exit setup mode. The meter will return to normal display mode with Bluetooth disabled.

MeterRead App

- You can easily view the measurement data through the app “MeterRead” (IOS/Android) installed on your phone.
- Install the “MeterRead” app.
- Activate Bluetooth on your phone and you will see the **RHT80BT** as one of the available devices.
- Click “**Connect Device**”
- Once connected, the app will enter **Normal Measuring Mode**.
- Clicking the back arrow will bring you to the “**Settings**” menu.
- Refer to the “**Help**” section for in depth MeterRead application functionality.



Automatic Power Off (APO)

- The meter automatically powers off after 15 minutes of inactivity to conserve battery life.
- To disable the automatic power-off function: Press and hold the Power button, then press the HOLD button simultaneously. The APO icon will disappear from the display, indicating the function is disabled.
- The APO feature resets to enable each time the meter is turned on

Safety Tips

After measuring high-temperature environments, allow the sensor probe to cool before touching it to prevent burns.

Battery Replacement

- When the low-battery icon appears on the display, replace the battery promptly.
- Open the battery compartment, remove the old 9V battery, and insert a new 9V (NEDA 1604 or 6F22) or equivalent battery.

Specifications

Feature	Description
Temperature Range	-20 °C to 60 °C (-4 °F to 140 °F)
Dew Point Range	-26 °C to 50 °C (-14.8 °F to 122 °F)
Wet Bulb Temperature Range	-20 °C to 50 °C (-4 °F to 122 °F)
Humidity Range	0 to 100 %RH
Temperature Resolution	0.1 °C / 0.1 °F
Humidity Resolution	0.1 %RH
Temperature Accuracy	±1 °C (±1.8 °F)
Humidity Accuracy	±3 %RH
Power Supply	9V Battery (6F22 or NEDA 1604)
Auto Power Off	After 15 minutes of inactivity (can be disabled)
Bluetooth	Bluetooth 4.0 Low Energy (Real-time data transfer)
Dimensions	10.2 × 2.8 × 1.5 in (approx.)
Weight	7.1 oz (200 g) including battery

Warranty Statement

Triplett Test Equipment offers a two-year warranty to the original purchaser of its products. We guarantee that our products will be free from defects in workmanship and materials for two (2) years from the purchase date.

This warranty does not cover:

- Products purchased from unauthorized distributors.
- Items that have been repaired or altered by unauthorized individuals.
- Damage from misuse, abuse, misapplication, negligence, or accidents.
- Products with altered, defaced, or removed serial numbers.
- Accessories, including batteries.

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