EXTECH®

USER MANUAL

Big Digit Remote Probe Hygro-Thermometer
MODEL 445715

Big Digit Hygro-Thermometer

74.9°F

64%

EXTECH *445715*

MAX/MIN ▶

RESET ▶
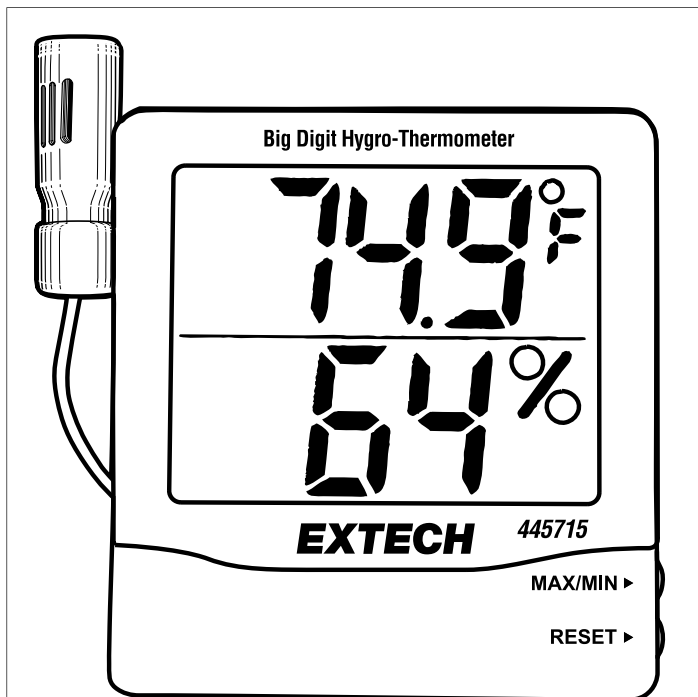
1   Introduction

Congratulations on your purchase of the Extech 445715. This instrument displays Humidity and Temperature measurements and can be calibrated using the optional salt bottles or other 33% and 75% humidity references. The remote probe mounts on the meter or extends for use in ducts and other remote locations. Proper use and care of this meter will provide years of reliable service.

1.1   Changes to Product in 2026

To improve usability and production consistency, some versions of this product feature an updated button arrangement.

The position or labeling of certain buttons may differ slightly from earlier versions, but the functions and operations remain the same. For some models, calibration adjustment screws have been replaced by button adjustments.

If the appearance or button layout of your product differs from the information provided in this manual, please refer to your actual unit. Contact our customer support staff if assistance is needed.

2 Description
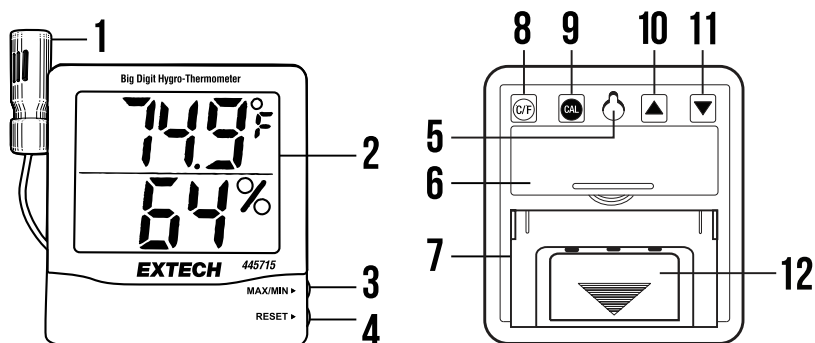
1. Remote probe
2. Display
3. MAX/MIN button
4. MAX/MIN RESET button
5. Wall mount
6. Probe cable compartment
7. Tilt stand and battery compartment
8. Temperature units select button
9. Calibration mode button
10. Increment calibration adjust button
11. Decrement calibration adjust button
12. Battery compartment cover

3 Operation

1. Remove the protective film from the display.
2. Select the temperature units using the rear ℃/℉ button.
3. The upper display indicates the temperature and the lower display indicates the relative humidity.
4. To view the maximum and minimum readings:

   • Press the MAX/MIN button to view the highest values measured since the RESET button was last pressed.
   • Press the MAX/MIN button again to view the lowest values measured since the RESET button was last pressed.
   • Press the MAX/MIN button again to return to normal operation.

5. To reset (clear) the MAX/MIN memory:

   • Press the RESET button for 1 second (while in the MAX/MIN display mode) to clear and reset the memory.

6. The unit can be wall-mounted or placed on a flat surface using the fold-out tilt stand.
7. The low battery flag will appear on the display when the battery voltage is low.

4   Calibration

The relative humidity verification and calibration procedures require a humidity chamber or optional 33% and 75% RH reference salt bottles.

Long press the CAL button to access the calibration menu. Short press CAL to step through the temperature calibration, the humidity calibration, and then to exit the menu.

4.1   Relative Humidity Verification

Follow these steps to verify the 33% and 75% RH calibration.

1. Insert sensor in the 33% or 75% salt bottle. Slowly rotating the bottle will assist in positioning the bottle over the sensor.
2. Allow the meter to stabilize for 1 hour at the reference humidity and then verify that the reading is within the accuracy specification.

4.2   Relative Humidity Calibration

1. Insert the sensor into a 75% salt reference bottle.
2. Check the reading after 1 hour.
3. Long press the CAL button to enter the calibration menu. The temperature calibration is the first mode in the calibration menu. Short press CAL to step to the humidity calibration mode.
4. Use the up/down arrow buttons to adjust the displayed value to match the humidity reference value.
5. Press CAL to exit

Note: Replace bottle when the salt at the bottom of the bottle has dried.

4.3   Temperature Calibration

1. Place the sensor in a stabilized environment of approximately 70°F (21°C).
2. Check the reading after 1 hour.
3. Long press the CAL button to enter the calibration menu. The temperature calibration is the first mode in the calibration menu.
4. Use the up/down arrow buttons to adjust the displayed value to match the room temperature.
5. Press CAL to exit.

5   Battery Replacement

Open the battery compartment by sliding the battery cover on the rear of the instrument downward as indicated by the arrow. Replace the two 1.5 V 'AAA' batteries, observing correct polarity, and secure the cover.

Do not dispose of used batteries or rechargeable batteries in household waste.

6   Specifications

Measurement	Range	Accuracy
Temperature	14 to 140℉ (-10 to 60℃)	±1.8℉ (±1℃) from 14 to 122℉ (–10 to 50℃)
Relative Humidity	10 to 99%	± 4% RH from 25 to 85% RH and 32 to 122℉ (0 to 50℃)
Batteries	2 x 1.5 V 'AAA'	

7 Customer Support

Customer Support Local Telephone List:

https://support.flir.com/contact

Returns (RMA):

https://customer.flir.com/Home

8 Warranty

Teledyne FLIR warrants this Extech brand instrument to be free of defects in parts and workmanship for two years from date of shipment. To view the full warranty text, please visit the support site, link below.

https://www.flir.com/support-center/warranty/

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