EXTECH®

Big Digit Remote Probe Hygro-Thermometer
MODEL 445715

TEMPERATURE

HUMIDITY

MAX/MIN ▶

RESET ▶

EXTECH INSTRUMENTS

**Big Digit Hygro-Thermometer**
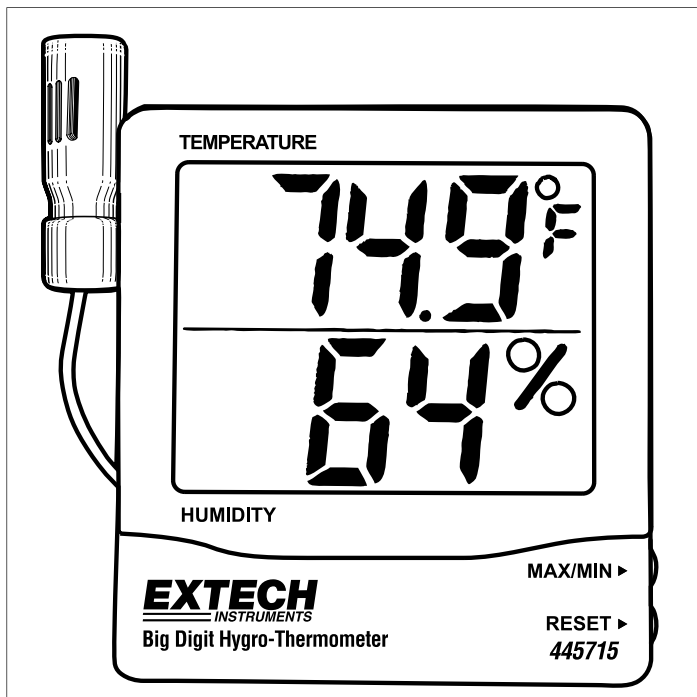
445715

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.

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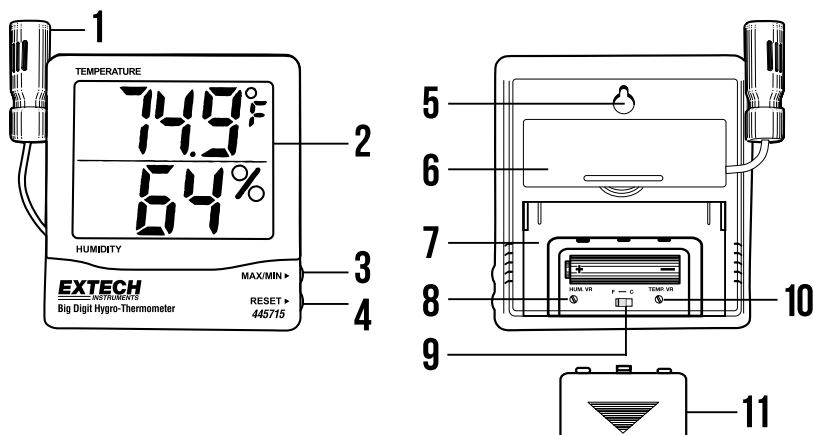
1. Remote probe
2. Display
3. MAX/MIN button
4. MAX/MIN RESET button
5. Wall mount
6. Probe cable compartment
7. Tilt stand and battery compartment
8. RH calibration adjustment
9. Temperature units select switch
10. Temperature calibration adjustment
11. Battery compartment cover

3 Operation

1. Open the battery compartment by pushing the cover on the rear of the instrument downward, as indicated by the arrow. Remove the battery safety strip and secure the cover. Remove the protective film from the display. The instrument is now ready for use.
2. Select the temperature units using the switch in the battery compartment.
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 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 1.5 V 'AAA' battery and secure the cover.

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

5   Calibration

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

5.1   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.

5.2   Relative Humidity Calibration

1. Insert the sensor into a 75% salt reference bottle.
2. Check the reading after 1 hour.
3. Adjust the RH calibration pot in ½ turn increments, waiting for the display to update after each adjustment. Repeat until reading is within specification.
4. Repeat the RH accuracy verification procedure.

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

5.3   Temperature Calibration

1. Place the sensor in a stabilized environment of approximately 70℉ (21℃).
2. Check the reading after 1 hour.
3. Adjust the calibration pot in ½ turn increments, waiting for the display to update after each adjustment. Repeat until reading is within specification.

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℃)
Battery	1.5 V 'AAA' cell	

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/

EXTECH®

USER MANUAL

Website
http://www.flir.com

Customer support
http://support.flir.com

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