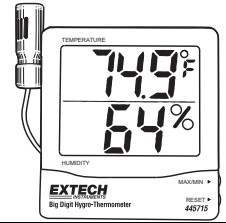


User's Guide Big Digit Remote Probe Hygro-Thermometer

EXTECH INSTRUMENTS

Model 445715

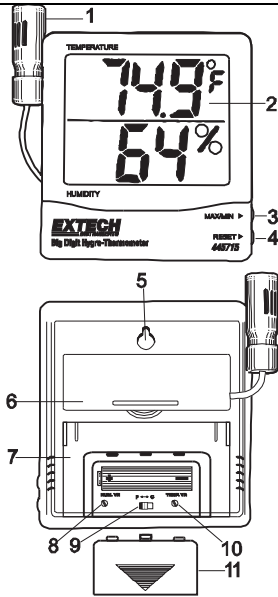


Introduction

Congratulations on your purchase of Extech's Big Digit Remote Probe Hygro-Thermometer. It features Humidity and Temperature adjustments plus optional calibration salt bottles (445580-C). The remote probe (with 18" cable) conveniently mounts on the meter or extends for measurements in ducts or remote locations. This professional meter, with proper care, will provide years of safe reliable service.

Meter Description

1. Temperature-Humidity Sensor
2. LCD Display
3. Max/Min
4. Max/Min Reset
5. Wall Mount
6. Sensor cable storage
7. Stand
8. Humidity calibration adjust
9. Temperature units switch (°F/°C)
10. Temperature calibration adjust
11. Battery compartment cover



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 the protective cover on the LCD display. The instrument is now ready for use.
2. The temperature units (°F/°C) can be selected via the switch located in the battery compartment.
3. The upper display indicates the temperature. The lower display indicates humidity.
4. Displaying the minimum and maximum values.
 - a. Press the MAX/MIN button. The highest value measured since the Reset button was last pressed appears on the display.
 - b. Press the MAX/MIN button again to display the lowest value measured since the Reset button was last pressed.
 - c. Press the MAX/MIN button again to return to normal display operation.
5. Resetting (clearing) the MAX/MIN memory.
 - a. Press and hold the RESET button for 1 second while in the MAX/MIN display mode to clear the memory and start recording new max/min values.
6. The unit can be wall-mounted or placed on a flat surface using the fold-out footing.
7. The low battery flag will appear on the display when the battery voltage is low. Replace the battery when this occurs.

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 1.5V 'AA' battery and replace the cover.

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Calibration

The following verification and calibration procedure requires a humidity chamber or the optional 33% and 75% RH reference bottles (445580-C).

RH Accuracy Verification

Checking the 33% or 75% RH Calibration

1. Insert meter's sensor into the 33% or 75% salt reference bottle or humidity chamber.
Note: Slowly rotating the bottle will assist in placing it over the sensor.
2. Allow the meter to stabilize for 1 hour at the reference RH and then verify that the reading is within the accuracy specification.

RH Calibration

1. Insert meter's sensor into a 75% salt reference bottle or humidity chamber.
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, until the reading is within the accuracy specification.
4. Repeat the RH accuracy verification procedure.

Note: If the salt at the bottom of the calibration bottles appears dry, the bottles should be replaced.

Temperature Calibration

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

Specifications

	Range	Accuracy
Temperature	-10 to 60°C 14 to 140°F	± 1.0°C within -10°C to 50°C ± 1.8°F within 14°F to 122°F
Humidity	10% to 99%	± 4% RH within 25% to 85% RH and 0 to 50°C or 32 to 122°F
Battery	1.5V 'AAA' cell	

Calibration/Repair Services

Extech offers complete repair and calibration services for the products we sell. For periodic calibration, NIST certification or repair of any Extech product, call customer service for details on services available. Extech recommends that calibration be performed on an annual basis to ensure calibration integrity.

Warranty

EXTECH INSTRUMENTS CORPORATION warrants the basic instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 EXTENSION 210 for authorization or visit www.extech.com for more information. **A Return Authorization (RA) number must be issued before any product is returned to Extech.** The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

Support line (781) 890-7440

Technical support: Extension 200; E-mail: support@extech.com

Repair & Returns: Extension 210; E-mail: repair@extech.com

Product specifications subject to change without notice

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