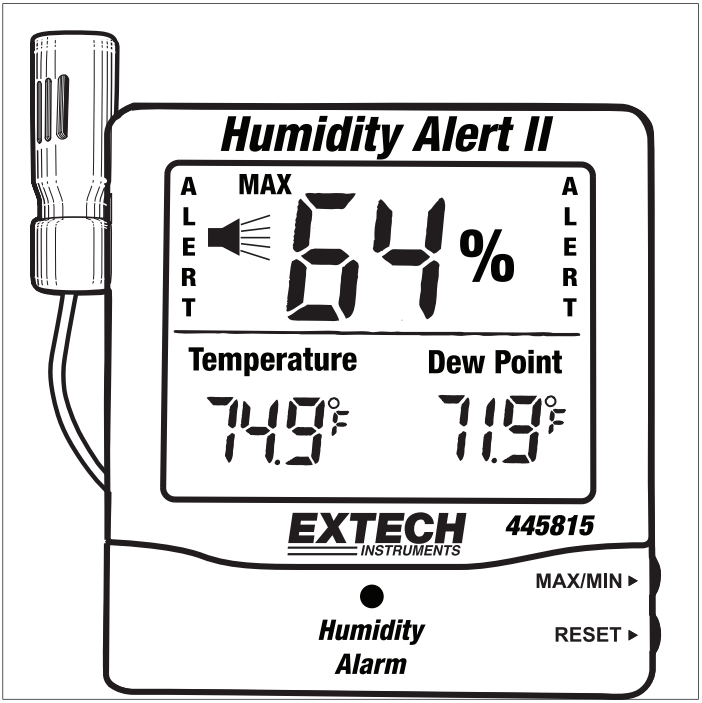
EXTECH®

USER MANUAL

Humidity Alert II
MODEL 445815



1 Introduction

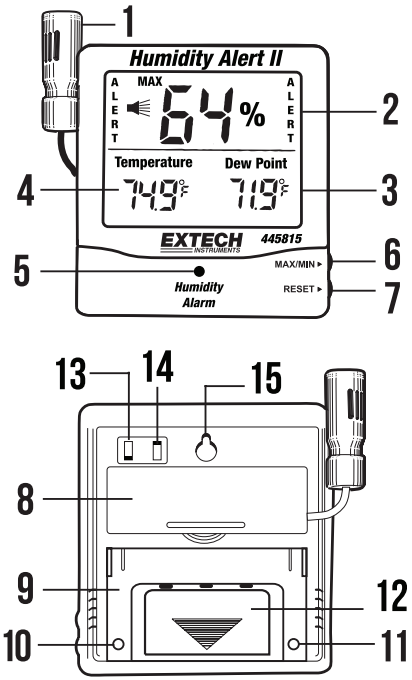
Congratulations on your purchase of the Extech 445815 Humidity Alert with remote probe. The probe can be mounted on the meter or extended to reach into ducts and other remote locations. The alarm function alerts you when the relative humidity exceeds the preset high or low limit. The 445815 includes calibration adjustments for temperature and humidity, MIN/MAX recording, and selectable temperature units. The unit can be wall-mounted or placed on a flat surface using its foldout tilt stand. This professional meter, with proper care, will provide years of safe reliable service.

2 Safety

CAUTION

- Do not leave batteries and packing material unattended; these can be dangerous for children.
- Remove the batteries when storing this device.
- Expired or damaged batteries can cause cauterization on contact with the skin. Wear hand protection when handling.
- Do not short circuit or incinerate the batteries.

3 Description



1. Remote temperature/humidity probe
2. Humidity display
3. Dew point temperature display
4. Ambient temperature display
5. Humidity alarm indicator
6. MAX/MIN control button
7. MAX/MIN RESET button
8. Cable storage
9. Tilt stand
10. Humidity calibration adjustment
11. Temperature calibration adjustment
12. Battery compartment
13. Alarm speaker ON/OFF switch
14. Temperature units switch
15. Wall mount

4 Operation

4.1 Preparation

Open the battery compartment by pushing the cover on the rear of the instrument downward, as indicated by the arrow. Remove the battery insulating strip and secure the cover. Remove the protective film from the display before use.

4.2 Temperature Units Switch

Select the temperature units (°C/°F) using the rear selection switch.

4.3 MAX/MIN Recording

1. Press the MAX/MIN button to view the highest readings measured since the RESET button was last pressed.
2. Press the MAX/MIN button again to view the lowest readings measured since the RESET button was last pressed.
3. Press the RESET button for 1 second to clear the MAX/MIN memory.
4. Press the MAX/MIN button again to return to normal operation.

4.4 MAX/MIN Reset Switch

1. Press the MAX/MIN button to enter the MAX/MIN mode.
2. Press the RESET button for 1 second to clear the memory and start recording new MAX/MIN readings.

4.5 Audible Alarm Switch

Enable or disable the audible alarm speaker using the rear selection switch.

4.6 Setting the Humidity Alarm

1. Simultaneously press and hold the MAX/MIN and RESET buttons until the text “HI” and the high alarm preset for relative humidity begin flashing.
2. Press the RESET button to adjust the high limit. Hold the button for rapid adjustment.
3. Press the MAX/MIN button. The text “LO” and the stored low alarm preset will flash.
4. Press the RESET button to adjust the low alarm preset.
5. Press the MAX/MIN button to arm the alarm. The alarm icon will appear on the display when the alarm is armed.
6. Long press the RESET button to save the settings and exit.

4.7 Alarm Alerts

If the relative humidity reaches the low or high alarm limit, the alarm alert will trigger. When triggered, the beeper will sound for 60 seconds (if the rear

speaker switch is enabled), the alarm alert LED indicator will flash red, and two flashing “ALERT” text messages will appear on the upper display.

5 Calibration

5.1 Relative Humidity Calibration

1. Place the meter in a humidity reference chamber. The reference should be set to 85% RH at 70°F (21°C).
2. Check the reading after 1 hour.
3. Adjust the rear RH calibration pot in ½ turn increments, waiting for the display to update after each adjustment, until the reading is within the accuracy specification.

5.2 Temperature Calibration

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

6 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.

7 Specifications

Measurement	Range	Accuracy
Relative Humidity	10 to 99%	± 4% RH from 25 to 85% RH and 32 to 122°F (0 to 50°C)
Ambient temperature	14 to 140°F (-10 to 60°C)	±1.8°F (±1°C) from 14 to 122°F (–10 to 50°C)
Dew point temperature	–32.8 to 140°F (-36 to 60°C)	±3.6°F (±2°C) at 68°F (20°C)
Battery	2 x 1.5 V 'AAA'	
Weight	6 oz. (169 g)	
Dimensions (meter)	4.3 x 3.9 x 0.8 in. (109 x 99 x 20 mm)	
Dimensions (probe)	Diameter: 0.57 in. (14.4 mm); Length: 1.67 in. (42.4 mm) Cable length: 18 in. (0.5 m)	

8 Customer Support

Customer Support Local Telephone List:

https://support.flir.com/contact

Returns (RMA):

https://customer.flir.com/Home

9 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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Website
http://www.flir.com

Customer support
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