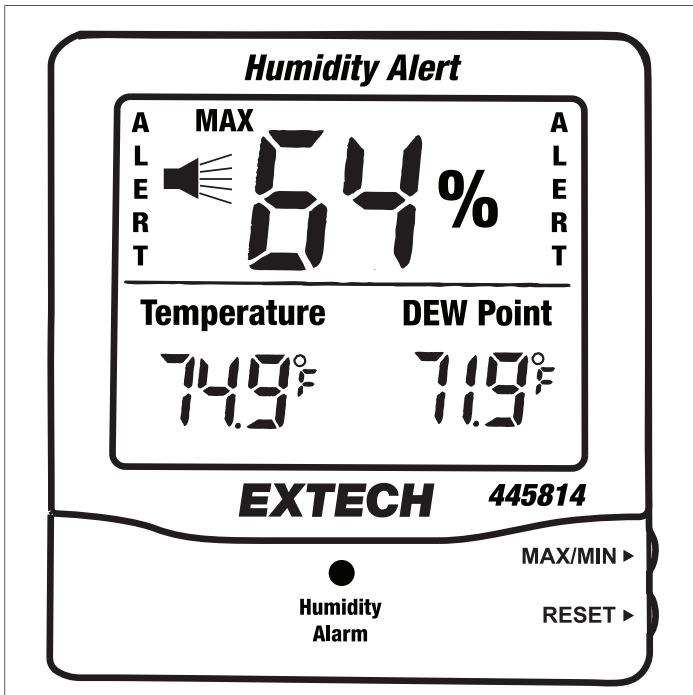


Humidity Alert II MODEL 445814



1 Introduction

Congratulations on your purchase of the Extech 445814 Humidity Alert. The alarm function alerts you when the relative humidity exceeds the preset high or low limit. The 445814 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.

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 For some models, calibration adjustment screws have been replaced by button adjustments.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.

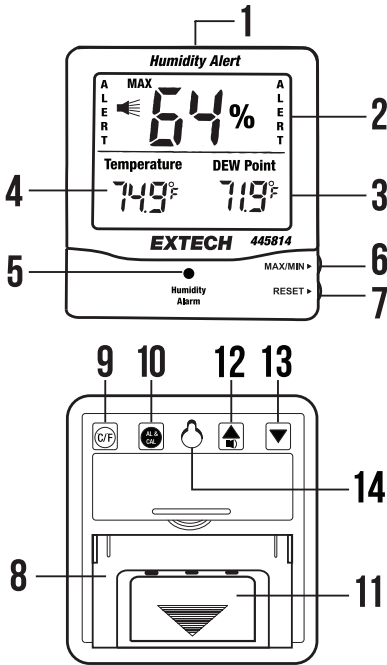
2 Safety



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. Temperature/humidity sensor
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. Tilt stand
9. Temperature units button
10. Alarm and calibration menu button
11. Battery compartment
12. Up arrow & alarm beeper button
13. Down arrow adjustment button
14. Wall mount

4 Operation

4.1 Preparation

Remove the protective film from the display before use.

4.2 Rear Button Operation

	Short press to toggle the temperature units.
	Long press to enter the alarm and calibration menu. Once in the menu, short press to step through the modes (high humidity alarm, low humidity alarm, alarm ON/OFF, temperature calibration, humidity calibration, and then exit).
	Press to increment a parameter value. Press to enable/disable audible alarm beeper.
	Press to decrement a parameter value.

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 Setting the Humidity Alarm

1. Long press the AL & CAL button to enter the alarm and calibration menu.
2. Short press the AL & CAL button to step to the high or the low humidity alarm.
3. Use the up/down arrow buttons to set the alarm value.
4. Press the AL & CAL button to exit the mode.

4.6 Alarm Alerts

If the relative humidity reaches the low or high alarm limit, the alarm alert will trigger. When triggered, the alarm alert LED indicator will flash red and two flashing "ALERT" text messages will appear on the upper display.

The beeper will also sound for 60 seconds, if it is enabled. Use the rear up arrow/beeper button to enable or disable the beeper. The mute icon appears when the beeper is disabled.

5 Calibration

5.1 Relative Humidity Calibration

1. Place the meter in a humidity reference chamber. The reference should be 70% RH, minimum.
2. Check the reading after 1 hour.
3. Long press the CAL button to enter the calibration menu. Then 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 the mode.


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. Long press the CAL button to enter the calibration menu. Then short press CAL to step to the temperature calibration mode.
4. Use the up/down arrow buttons to adjust the displayed value to match the room temperature.
5. Press CAL twice to exit the mode.

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 two 1.5 V 'AAA' batteries 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)
Power supply	2 x 1.5 V 'AAA' batteries	
Weight	6 oz. (169 g)	
Dimensions	4.3 x 3.9 x 0.8 in. (109 x 99 x 20 mm)	

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/>

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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