

Model 445814 Humidity Alert

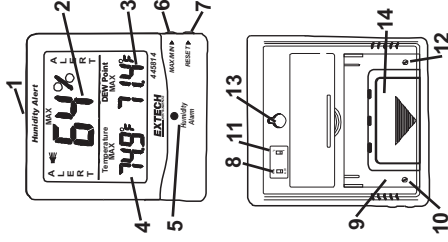
Humidity Indicator with Dew Point and Programmable Hi/Lo %RH Alarms

Introduction

Congratulations on your purchase of Extech's Humidity Alert Hygro-Thermometer. Humidity alarms warn when the %RH exceeds a pre-set HI or LO limit. It also features Humidity and Temperature calibration adjustments. The unit can be wall-mounted or placed on a flat surface using the fold-out stand. This professional meter, with proper care, will provide years of safe reliable service.

Meter Description

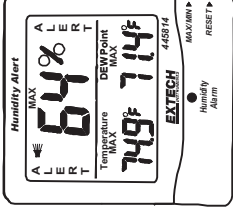
1. Temperature-Humidity Sensor
2. %RH Display
3. Dew Point Display
4. Temperature Display
5. %RH LED alarm
6. Max/Min push button
7. Reset push button
8. Audible Alarm ON/Off switch
9. Tilt Stand
10. Humidity calibration adjust
11. Temperature units switch (°F/°C)
12. Temperature calibration adjust
13. Wall hanger
14. Battery compartment



Battery Replacement

The low battery flag will appear on the display when the battery voltage is low. Replace the battery when this occurs.

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/ AAA' batteries and replace the cover.



Calibration

RH Calibration

1. Insert the meter into a humidity chamber. The reference should be >70% RH.
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.

Temperature Calibration

1. Place the meter in a stabilized environment of approximately 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
Dew Point	-36 to 60°C -32.8 to 140°F	+/- 2°C @ 20°C +/- 3.6°F @ 68°F
Battery	(2) 1.5V 'AAA' cell	
Weight	6 oz (169g)	
Dimensions	Display: 4.3x3.9x0.8" (109x99x20mm)	

Note: If subjected to an electrostatic discharge the meter may malfunction and require the user to perform a reset.

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V3.2 5/09

Operation

Preparation for use

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 the protective film cover on the LCD display.

Temperature Units

Select °F or °C units using the rear selection switch.

Audible alarm

Select  or  using the rear selection switch to turn the audible alarm on or off.

Maximum / Minimum display

1. Press the MAX/MIN button. The highest value measured since the Reset button was last pressed appears on the display.
2. Press the MAX/MIN button again to display the lowest value measured since the Reset button was last pressed.
3. Press the MAX/MIN button again to return to normal display operation.

Resetting (clearing) the MAX/MIN memory

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

Setting the %RH Alarm Limits

1. Simultaneously Press and HOLD the MAX/MIN and RESET button until "HI" and the stored HI %RH limit appears flashing.
2. Press the RESET button to set the HI %RH limit. Hold the button in for rapid adjustment.
3. Press the Max/Min button. "LO" and the stored LO %RH limit will appear flashing
4. Press the RESET button to set the LO %RH limit.
5. Press the Max/Min button to turn on or off the alarm. The alarm icon  will appear in the display when the alarm is active.
6. Press and hold the RESET button to save the settings and exit the mode.

Alert

If %RH exceeds the HI limit or goes below the LO limit the alert will be activated. The alert consist of two flashing 'ALERT' icons in the upper display, a flashing red light and an audible buzzer (for 60 seconds)