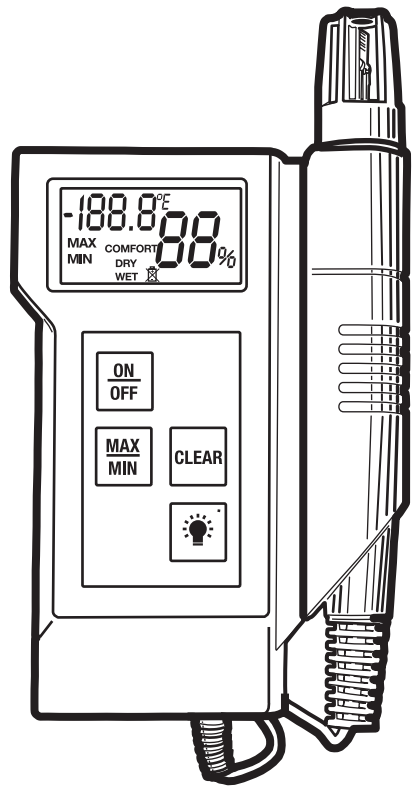


# User's Guide



## Hygro-Thermometer

### Model 45320



## Introduction

Congratulations on your purchase of the Extech 45320 Hygro-Thermometer. The backlit LCD displays temperature (in °C or °F) and relative humidity (%) simultaneously. Maximum and minimum temperature and relative humidity readings can be stored and recalled. Careful use of this meter will provide years of reliable service.

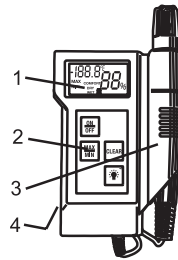
## Specifications

Display	Backlit E.L. (Electro-Luminance) LCD
Measurement ranges	Temperature: 5.0 °F to 122.0°F (-15.0 °C to 49.9°C) Relative Humidity: 25% to 95%
Accuracy	Temperature: ±1.8°F (1°C) Relative Humidity: ±5%
Sensor types	Temperature: Thermistor Relative Humidity: Resistive
Max/Min mode	Record/Recall highest and lowest temperature & relative humidity readings
Over range indication	Dashes '-----' will appear on the LCD for temperature or relative humidity if a measurement is out of range
Low battery indication	Displayed battery symbol superimposed with an 'X'
Power supply	Two (2) 'AA' 1.5V Batteries
Battery life	1 year (typical)
Dimensions	Meter: 5.25 x 2.75 x 1.00" (133 x 70 x 25mm) Probe: 7" (178mm) length; 1" (25mm) width
Sensor cable length	39" (1m)
Weight	6.7 oz. (190g) with battery

## Meter Description

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1. Backlit LCD display
2. Push-button keypad
3. Probe in holder
4. Tilt stand and Battery compartment (rear)



## Meter Operation

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### Meter Power

1. The 42530 is powered by two (2) 'AA' 1.5 V batteries.
2. Remove the protective decal that covers the LCD display by peeling it off by its corner.
3. Press the ON/OFF key to turn the meter on. If the display does not appear, check that the batteries are installed and fresh. Note that a plastic tab, which must be removed before use, may be installed in the battery compartment between one of the batteries and the electrical contact.
4. Press the ON/OFF key again to turn the meter off.

### Measurements

1. Slide the Temperature – Relative Humidity Probe up from its holder and hold it in the air. Do NOT immerse the probe in liquid. Allow time for the readings to stabilize. Note that the sensor need not be removed from its holder to operate.
2. The temperature (upper left) and relative humidity (right) measurements will appear on the LCD.
3. The 'Comfort Level' display (Wet, Dry, or Comfort icons) will appear at the center of the LCD. 'Wet' indicates that humidity is above 70%. 'Dry' indicates that the humidity is below 40%; 'Comfort' indicates that the humidity is between 40% and 70%.
4. Note that the meter has a tilt stand located on the upper back area. Flip up the tilt stand from its bottom edge for convenient desktop use.

### Display Backlight

1. Press the backlight key (light bulb icon) to activate the display backlight. The backlight will turn off automatically after approx. 5 seconds to conserve battery life.
2. Note that the backlight feature drains the batteries at a faster rate than normally would be the case without the backlight turned on.

### Selecting °C/°F units of measure

The temperature unit selector switch is located inside the battery compartment (back of meter). Open the compartment and slide the switch to the desired position (°C or °F). The LCD display will reflect the current selection.

## **MAX / MIN Feature**

When the meter is turned on it begins keeping track of the highest (Max) and lowest (Min) temperature and relative humidity readings. To view these readings at any time, press the MAX/MIN key.

The maximum temperature and humidity readings will appear along with the MAX display icon. Press the MAX/MIN key again to view the minimum temperature and relative humidity readings. The minimum temperature and humidity readings will appear along with the MIN display icon.

Press MAX/MIN key again to exit this mode.

To Clear the MAX/MIN readings, press the CLEAR key once with the MAX or MIN value in the display. The meter will clear the existing records and begin storing new MAX/MIN records. Note that the MAX/MIN records are automatically cleared when the meter is turned off.

## **Comfort Level Feature**

The Comfort Level display ('Wet', 'Dry', or 'Comfort' icons) will appear at the center of the LCD.

For humidity measurements below 40%, the meter displays the 'DRY' icon. This region of humidity can be harmful to furniture and other wood products where splitting and cracking could occur after prolonged exposure. Electronic equipment is also at risk in this region from static electricity.

For humidity measurements above 70%, the meter will display the 'WET' icon. Humidity above 70% is not considered safe for dwellings or work areas where mold can form and wood can swell and warp. In addition, sensitive objects such as artwork, musical instruments, and paper documents can be damaged by high moisture.

Humidity between 40% and 70% is the most comfortable environment for people, furniture, paper, artwork, etc. In this region the meter displays the 'COMFORT' icon.

## **Battery Replacement**

When the low battery indicator appears (the letter 'X' over the battery symbol), replace the two (2) 1.5V 'AA' batteries thusly:

Open the rear battery compartment by sliding the compartment cover to the right, replace the batteries observing polarity, and close the compartment.



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