TRIPLETT

RHT60
Precision Psychrometer

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Introduction

Congratulations on your purchase of the Triplett Model RHT60 Hygro-Thermometer with Wet Bulb and Dew Point.. This device measures Humidity, Air Temperature, Dew Point temperature and Wet Bulb temperature. Advanced features include Data Hold, Auto Power Off, and MAX/MIN reading
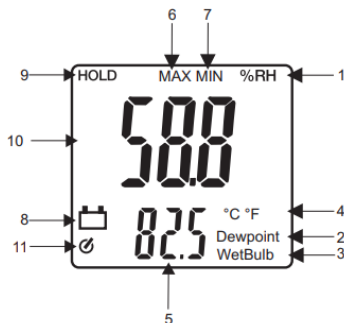
Meter Description

1. Humidity and Temperature Sensor
2. LCD Display
3. Power ON/OFF Button
4. MIN/MAX Button
5. °F/°C/WBT (Wet Bulb)/Dew Point button
6. HOLD/Backlight Button

Note: The battery compartment is located on the rear of the instrument

Display Description

1. Relative Humidity %
2. Dew Point
3. Wet Bulb
4. °F/°C
5. Temp/Wet Buld/ Dew Point Display
6. Maximum
7. Minimum
8. Low Battery Indicator
9. Hold
10. RH% Measurement
11. Auto Power OFF Indicator

Operation

Power

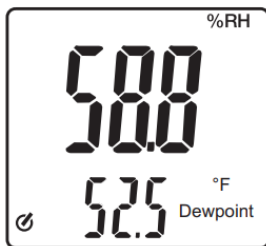Press the power button(●) to turn power on or off

Taking measurements

1. Hold the probe in the area to be tested.
2. Allow adequate time for readings to stabilize.
3. The Relative Humidity measurement appears in the top display.
4. Pressing the **°F/°C/WBT/Dew Point** button
toggles the lower display between Temperature (°F), Temperature (°C), Dew Point (°C), Dew Point (°F), Wet Bulb (°C) and Wet Bulb (°F).
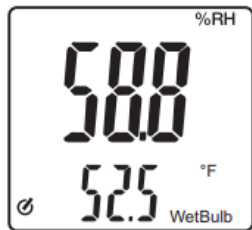
Dew Point measurements

1. To select the Dew Point measurement, press the **°F/°C/WBT/Dew Point** button until DEWPOINT (°F or °C) appears in the lower right.
2. Dew Point temperature is now displayed.

Wet Bulb Measurements

1. To select the Dew Point measurement, press the °F/°C/WBT/Dew Point button until WETBULB (°F or °C) appears in the lower right.
2. Wet Bulb temperature is now displayed.

Temperature measurements

1. To select the temperature measurement, press the °F/°C/WBT/Dew Point button until °C or °F appears in the lower right.
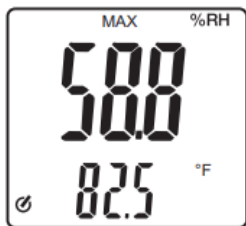2. Temperature is now displayed

Data Hold

Press the button to momentarily freeze the displayed readings. HOLD will appear on the upper left hand side of the display. Press the again to return to normal operation.

Minimum (MIN) Maximum (MAX) Function

The MIN/MAX mode allows the user to view only the lowest (**MIN**) or highest (**MAX**) readings. Press the **MAX/MIN** button once and "**MAX"** appears on the display. The LCD is now displaying the maximum humidity in the top display and the maximum reading of the selected parameter in the bottom display. The display will not change until a higher reading is registered. Press the **MAX/MIN** button again and "**MIN"**appears on the display.

The LCD is now displaying the minimum humidity and the minimum second reading in the bottom display. The display will not change until a lower reading is registered.

To exit the MIN/MAX mode, press and hold the **MIN/MAX** button for 2 seconds until the "**MAX"** or "**MIN"** icon disappears.

Note: Readings are automatically reset when switching from one display to the next (MAX to MIN).

Backlight

Press and hold the light button (🔆) until the backlight comes on. To turn thebacklight off press and hold the light button (🔆) until the backlight turns off.

Automatic Power OFF

The meter has a default setting that automatically shuts the meter off after 10 minutes (indicated by the ⊘ symbol on the display. This battery saving feature can be disabled. To disable the auto power off function, simply press and hold the hold button 🔆

while powering on. The $\oslash$ symbol will not appear when auto power off has been disabled. The meter will revert to the default auto-off mode when powered off.

Maintenance

Cleaning and storage

o   The meter should be cleaned with a damp cloth and mild detergent when necessary. Do not use solvents or abrasives.

p   Store the meter in an area with moderate temperature and humidity (refer to the operating and storage range in the specifications chart earlier in this manual).

Battery Replacement

When the battery power falls low, the battery symbol will appear on the LCD. Replace the 9 Volt battery by removing the Philips head screw holding the rear battery compartment cover to access the battery compartment. Ensure that the compartment cover is securely fastened when finished.

You, as the end user, are legally bound (**Battery ordinance**) to return all used batteries and accumulators; **disposal in the household garbage is prohibited!**

You can hand over your used batteries / accumulators at collection points in your community or wherever batteries / accumulators are sold!

Disposal: Follow the valid legal stipulations in respect of the disposal of the device at the end of its lifecycle

Specifications

Function	Range and Resolution	Accuracy
Humidity	0.0 to 10.0%RH	±3%RH
	10.0 to 90.0%RH	±2%RH
	90.0 to 100.0%RH	±3%RH
Temperature	-30.0 to -20.0^{o}C	
	-22.0 to – 4.0^{o}F	
	-19.9 to 70.0^{o}C	+/-0.9°F (+/-0.5°C) (at 25°C)
	-3.9 to 158.0^{o}F	+/-1.5°F (+/-0.8°C) at all other ranges
	70.1 to 100.0^{o}C	
	158.1 to 199.0^{o}F	
Wet Bulb	0 to 80°C (32 to 176°F)	Calculated from RH and air temperature measurements
Dew Point	-30 to 100°C (-22 to 199°F)	

Display	Dual LCD
Response Time:	<30 seconds (90% of final value in moving air)
Operating Conditions	32 to 104°F (0 to 40°C); < 80% RH non-condensing
Storage Conditions	-40 to 185°F (-40 to 85°C); <99% RH non-condensing
Power Supply	9 Volt battery
Battery Life	Approx. 24 hours
Dimensions / Weight	8.9 x 1.7 x 1.3" (225 x 45 x 34mm); 7.0 oz (200g)

Warranty

Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries are not covered by this warranty