# INSTRUCTION MANUAL
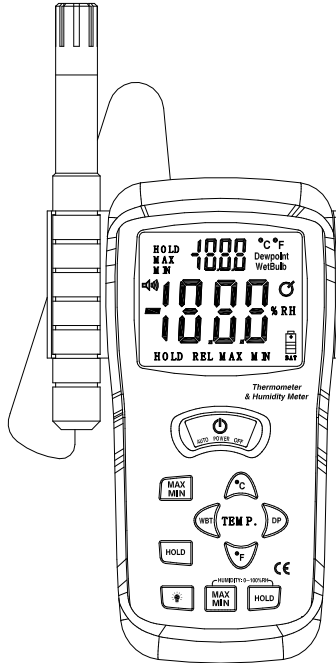
## Humidity & Temperature Meter & Wet Bulb Temperature Dew Point Temperature



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**TITLE**

# 1. INTRODUCTION

The digital Humidity & Temperature Meter & Wet Bulb Temperature Dew Point temperature has been designed to combine the functions of Humidity Meter, Temperature Meter, Wet Bulb Temperature and Dew point temperature.

It is an ideal Humidity & Temperature Meter Instrument with scores of practical applications for laboratorial, industrial, Engineer and professional use.

The Humidity & Temperature Meter is for use a humidity & temperature semiconductor sensor. This operation manual contains general information and specification.

# 2. FEATURES

- Fast Response Time %RH: 10S (90% at 25℃ still air)
- High Accuracy
- Dew Point Temperature (-30℃~100℃/-22°F~199°F)
- Wet Bulb Temperature （0℃~80℃/32°F~176°F）
- Resolution 0.1%RH, 0. 1℃/0. 1°F
- Max Hold and Data Hold Function
- Micro Processor-based Design
- Dual Display Temperature & Humidity
- Shutdown time digitally adjustable from 1 to 120
- Backlight

# 3. SPECIFICATIONS

**Display:** Large 4-1/2 dual digital LCD display with backlight

**Sensor Type:** A single chip relative humidity and temperature multi sensor module comprising a calibrated digital output.

**Response Time:** %RH:10S (90% at +25℃ still air)

**Accuracy Note:** Accuracy is specified for the following ambient temperature range: 64 to 82°F (18 to 28°C)

**Sampling Rate:** 2.5 samples per second

**Polarity:** Automatic, (-) negative polarity indication.

**Over-range:** "OL" mark indication.

**Low Battery Indication:** The " " is displayed when the battery voltage drops below the opera-ting level.

**Operating Conditions:** 32 to 104ºF (0 to 40ºC); < 80% RH non-condensing

**Storage Conditions**: 14 to 140ºF (-10 to 60ºC); <80% RH non-condensing

**Non-Automatic /Auto Power Off:** Firstly press humidity hold button, then press power button. After the full display appears, release both buttons. Icon" ⏻ " will not show on the LCD. The unit will not auto power off now.

Directly press power on/off button. Meter automatically shuts down after adjustment time inactivity (Sleep Mode).

**Adjustable Shutdown Time:** shutdown time digitally adjustable from 1 to 120, Firstly press humidity max/min button, then press power button. After the full display appears, release

both buttons. icon" ☾ " and the current shutdown time on the LCD. And then respectively press C and F key to upward and downward.

**Power:** One standard 9V, NEDA1604 or 6F22 battery.

**Dimensions/Wt.:** 150mm*72mm*35 mm/210g

**Humidity / Temperature Measurement Range:**

**Humidity**: 0%~100%RH
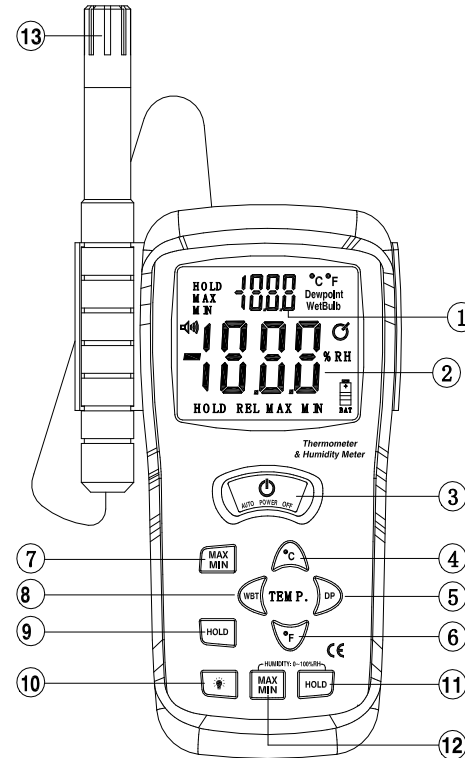
**Temperature:** –30℃~ 100℃, -30℉~ 199℉

**Resolution :** 0.01% RH, 0.01℃/℉.

**Humidity Accuracy:** + 2%RH (at 25℃, 20%~80% RH).

+ 2.5%RH (at other ranges)

**Note:** The measuring range is from 0% to 100%, but above 80% and below 20% the deviation is not specified.

**Air Temperature Accuracy:** + 0.5℃/+ 0.9℉ (at 25℃)

+ 0.8℃/+ 1.5℉ (all other ranges)

## 4. PANEL DESCRIPTION

① **Temperature Display**

② **Humidity Display**

③ **Power ON/OFF Button:** Turn the meter power ON/OFF.

④ **℃ :** In the normal measurements to change the DT625 from'° F' to '° C'.

⑤ **Dew Point Button:** Dew Point Measurement.

⑥ ' ℉ **:** In the normal measurements to change the DT625 from'° C' to '° F'.

⑦ **Temperature MAX/ MIN Button:** Press MAX/MIN button to enter MAX, MIN Recording mode (manual range only). Select the proper range before selecting MAX MIN to ensure that the MAX/MIN reading will not exceed the testing range. Pressing the max/min button once for Max or twice for Min function.

⑧ **WBT Button:** Wet Bulb Measurement.

⑨ **Temperature HOLD Button:** Press Hold Button to enter hold function. The Temperature reading will be held when Data Hold button is pressed.

⑩ **Backlight Button:** To turn on or off backlight function.

⑪ **Humidity HOLD Button**

12 **Humidity MAX/ MIN Button**

⑬ **Humidity / Air Temperature Probe:** Humidity & and Temperature Semiconductor Sensor inside.

## 5. HUMIDITY AND AIR TEMPERATURE MEASU-REMENTS

1. Hold the probe in the area to be tested & allow adequate time for readings to stabilize.

2. Press ℉ ,℃, dew point, WBT Button to enter ℉ ,℃, dew point Wet Bulb Measurement

3. Read the Relative Humidity and Air Temperature, dew point temperature wet bulb temperature.

**NOTE:**

Do not immerse the probe in liquid; it is intended for use in air only.

**Warning:**

Don't expose the sensor to direct sunlight.

Don't touch or manipulate the sensor.

**6. BATTERY REPLACEMENT**

If the sign " 　 " appears on the LCD display, it indicates that the battery should be replaced. Open the battery case and replace the exhausted battery with new battery. (1 x 9V battery NEDA 1604, 6F22 or equivalent).