

# MANUAL CEM DT-625

**Humidity & Temperature Meter &  
Wet Bulb Temperature  
Dew Point Temperature**



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## 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°C still air)
- High Accuracy
- Dew Point Temperature (-30°C~100°C/-22°F~199°F)
- Wet Bulb Temperature ( 0°C~80°C/32°F~176°F)
- Resolution 0.1%RH, 0. 1°C/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°C 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 operating level.


**Operating Conditions:** 32 to 104°F (0 to 40°C); < 80% RH non-condensing

**Storage Conditions:** 14 to 140°F (-10 to 60°C); <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°C~ 100°C, -30°F ~ 199°F

**Resolution :** 0.01% RH, 0.01°C/°F.

**Humidity Accuracy:** ± 2%RH (at 25°C, 20%~80% RH).

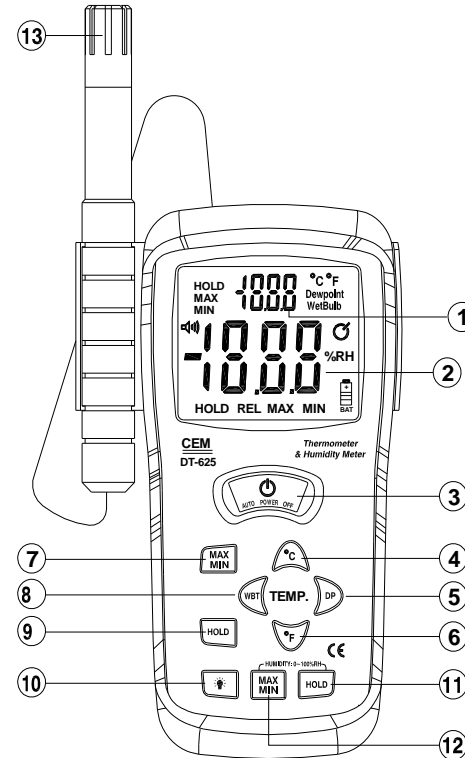
± 2.5%RH (at other ranges)

**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°C/± 0.9°F (at 25°C)

± 0.8°C/± 1.5°F (all other ranges)

## 4. PANEL DESCRIPTION



- ① **Temperature Display**
- ② **Humidity Display**
- ③ **Power ON/OFF Button:** Turn the meter power ON/OFF.
- ④ **°C:** In the normal measurements to change the DT625 from °F to °C.
- ⑤ **Dew Point Button:** Dew Point Measurement.
- ⑥ **'F:** 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 MEASUREMENTS

1. Hold the probe in the area to be tested & allow adequate time for readings to stabilize.
2. Press °F, °C, dew point, WBT Button to enter °F, °C, 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).