

HT-625 INSTRUCTION MANUAL

Humidity & Temperature Meter & Wet Bulb Temperature Dew Point Temperature

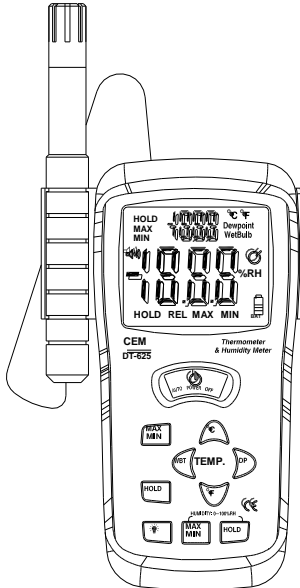


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1. INTRODUCTION

The **HT-625** Thermo-hygrometer has been designed to combine the functions of a Humidity Meter, Temperature Meter, Wet Bulb Temperature and Dew Point Temperature Meter.

The Meter is simple to operate and is commonly used in a variety of applications which include laboratory, industrial, engineering and professional use.

The Humidity & Temperature Meter uses 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 “ $\frac{+}{\equiv}$ ” 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 the power on/off button. The Meter will automatically shut down after adjustment time inactivity (Sleep Mode).

Adjustable Shutdown Time: The shutdown time is digitally adjustable from 1 to 120 minutes. Firstly press the humidity max/min button, then press the 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 to set the time period.

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

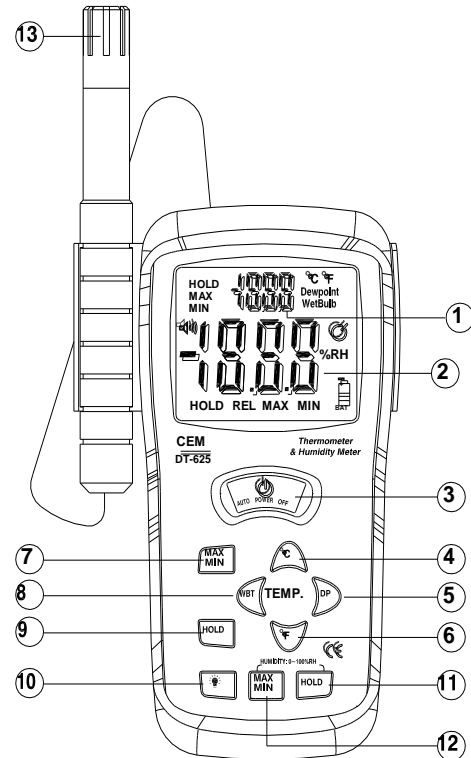
Resolution : 0.01% RH, 0.01°C/°F.

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:** Factory set °C. Press to change to °F to °C'.
- ⑤ **Dew Point Button:** Dew Point Measurement.
- ⑥ **°F:** Factory set °C. Press to change to °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 the Hold Button to enter the hold function. The Temperature reading will be held when the Data Hold button is pressed.
- ⑩ **Backlight Button:** Press to backlight on / off
- ⑪ **Humidity HOLD Button**
- ⑫ **Humidity MAX/ MIN Button**
- ⑬ **Humidity / Air Temperature Probe:** Humidity & 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 stabilise.
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.

IMPORTANT NOTE:


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

Warning:

Do not expose the sensor to direct sunlight.

Do not 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 a new battery. (1 x 9V battery NEDA 1604, 6F22 or equivalent).