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Temperature & Humidity Meter

Code: 330580

Operating Instructions

Temperature & Humidity Meter

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 and temperature meter instrument with scores of practical applications for laboratory, industrial, engineering and professional use.

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

2. Features

• Fast response time %RH: 10S (90% at 25ºC still air)
• High accuracy.
• Dew point temperature (-30ºC~100ºC/ -22ºF~199ºF)
• Wet bulb temperature (0ºC~80ºC/32ºF~176ºF)
• Resolution 0.01%RH, 0.01ºC/0.01ºF
• Max hold and data hold function.
• Micro processor-based design
• Dual display temperature and humidity
• Auto power off, disable sleep mode
• Backlight
• Mini size
• Size (HxWxD) 225 x 45 x 34mm
• Weight: 200g

3. Specification

Display: Large digital 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 25ºC still air)
Accuracy note: Accuracy is specified for the following ambient temperature range: 18 to 28ºC (64 to 82ºF)
Sampling rate: 2.5 samples per second
Polarity: Automatic, (-)negative polarity indication
Over-range: "OL" mark indication
Low battery indication: The battery icon is displayed when the battery voltage drops below the operating level
Operating conditions: 0 to 40ºC (32 to 104ºF); <80%RH non-condensing
Storage conditions: -10 to 60ºC (14 to 140ºF); <80%RH non-condensing
Auto power off: Meter automatically shuts down after approx. 15 minutes of inactivity (sleep mode).
To override auto power off function (non-sleep mode): Firstly press hold/backlight button, then press power button. After the full display appears, release both buttons. The clock icon will be absent from the display and the unit will not auto power off.
Power: One standard 9V, NEDA 1604 or 6F22 battery.
Dimensions:
225(H) x 45(W) x 34(D)mm/200g
Humidity/Temperature Measurement Range:
Humidity: 0%~100%RH
Temperature: -30ºC~100ºC/-30ºF~199ºF
Resolution: 0.01%RH, 0.01ºC/ºF
Humidity accuracy: ±2%RH (at 25ºC, 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: ±0.5ºC/±0.9ºF (at 25ºC)
±0.8ºC/±1.5ºF (all other ranges)

4. Panel Description

1. Humidity/Air Temperature Probe:
Humidity and temperature semiconductor sensor inside.
2. LCD Display: Dual line LCD display with units of ºC, ºF, %RH dewpoint, wet bulb and low battery "BAT" MIN/MAX HOLD, indication.
3. 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. Press once to select MIN. Press again to select MAX. Press and hold the button for over 2 seconds to turn off MAX, MIN Recording.
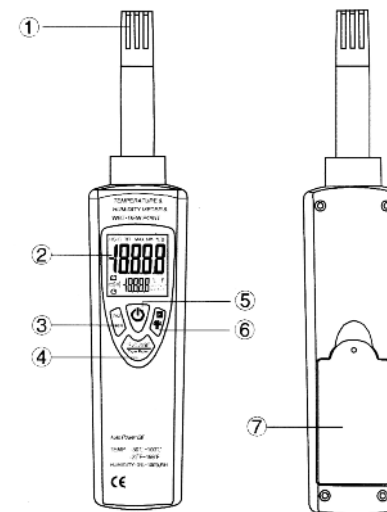**4. ºC, ºF, Dew Point, Wbt Select Button:** Press the ºC, ºF, Dew Point, Wbt select button to enter select ºC, ºF, Dew Point, Wet Bulb measurement.
5. Power ON/OFF Button: Turn the meter power ON/OFF.
6. HOLD/Backlight Button: Press Hold/Backlight Button to enter hold function. The reading will be held when Data Hold button is pressed.
Press Hold/Backlight button for over 2 seconds to turn on or off back light function.

7. Battery Compartment

5. Humidity and Air Temperature Measurements

1. Hold the probe in the area to be tested and allow adequate time for readings to stabilise.
2. Press ºF, ºC, dew point, WBT select button to enter select ºF, ºC, 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 (in solation).
Don't touch or manipulate the sensor.

6. Battery Replacement

If the battery icon 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 (1x 9V battery NEDA 1604, 6F22 or equivalent).