geo
F E N N E L

INSTRUCTION MANUAL
Humidity & Temperature Meter
MODEL FHT60

TEMPERATURE &
HUMIDITY METER

MAX MIN HOLD BAT
%RH ¡¡C ¡¡F

MAX
MIN

%RH
°C·°F

Auto Power Off
TEMP: - 20° C~60° C
- 4° F~140° F
HUMIDITY: 0%~100%RH

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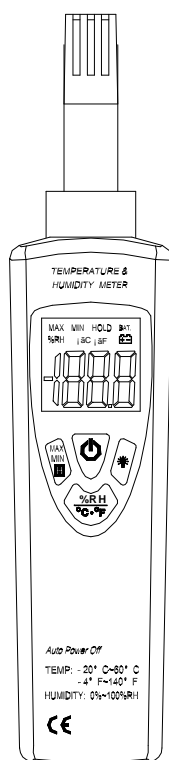
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1. INTRODUCTION

The 2 in 1 digital Humidity & Temperature Meter has been designed to combine the functions of Humidity Meter and Temperature Meter.

It is an ideal Humidity & Temperature Mete Instrument with scores of practical applications for professional and home use.

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

2. **FEATURES**

- Mini size
- Fast response time
- Semiconductor sensor for temperature measurements of -20℃ to 60℃ and

  -4℉~140℉ with 0.1℃/℉ Resolution.

- Humidity measurement from 0%RH to 100%RH with 0.1%RH resolution
- Data Hold function
- MIN & MAX Hold function

3. SPECIFICATIONS

Display: Large 3-1/2 digital LCD display with backlight

Sensor Type: ① Humidity: Precision capacitance sensor

②Temperature: Thermistor (probe) and type "K" thermocouple

**Response Time:** Probe Temperature and Relative Humidity: 3 minutes

Accuracy note: Accuracy is specified for the following ambient temperature range:

64 to 82℉ (18 to 28℃)

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 122°F (0 to 50°C); < 80% RH non-condensing

Storage Conditions: 14 to 140°F (-10 to 60°C); <80% RH non-condensing

Auto Power Off: Meter automatically shuts down after approx .15 minutes of inactivity.

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

Dimensions/Wt.:
225 (H) x 45 (W) x 34 (D) mm/200g

Humidity/Temperature Measurement Range:

Humidity: 0%~100.0%RH

Temperature: –20.0℃- +60.0℃

-4.0℉- +140.0℉,
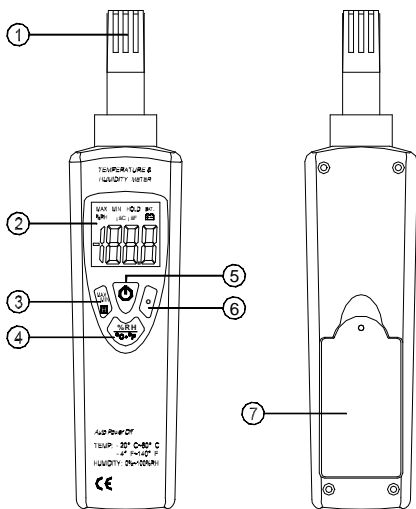
Resolution : 0.1% RH, 0.1℃/℉.

Humidity Accuracy:

$\pm$ 3.5%RH (at 25℃ , 5%～95% RH).

Note: The measuring range is from 0% to 100%, but above 95% and below 5% the deviation is not specified.

Air Temperature Accuracy:

$\pm$ 2.5℃ ; $\pm$3.5℉.

4. PANEL DESCRIPTION

① **Humidity / Air Temperature Probe**

(Humidity Sensor and Semiconductor Sensor inside)

② **LCD display:** 3 1/2 digits LCD display

with units of ^{O}C, ℉, %RH and low battery

"BAT" MIN /MAX HOLD,   DATA HOLD indication.

③**MAX/ MIN Recording/Data Hold Button:**

MAX/MIN: Press MAX/MIN/Hold 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. and press again release MIN/MAX recording function.

Data Hold: **Press and hold the Button for over 2 second to turn on or off data hold function.** The reading will be held when Data Hold button Switch is pressed. If the button Switch **for over 2 second** is pressed once again, will release the hold and allow a further measurement.

MAX Hold / MIN Hold: **Press and hold the Button for over 2 second to turn on or off data hold function.**

④ **%RH ,℃,℉ select Button:**

Press **%RH ,℃,℉ select Button** to

enter select %RH ,℃,℉ Measurement

⑤ **Power ON/OFF Button :**

Turn the meter power ON/OFF

⑥ **Backlight Button:**
Turn the meter backlight ON/OFF

⑦ **Battery Compartment**

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 **%RH ,℃,℉ select Button** to enter select %RH ,℃,℉ Measurement

3. Read the Relative Humidity and Air Temperature.

   NOTE: Do not immerse the probe in liquid; it is intended for use in air on.

Warning:
Don't expose the humidity sensor to direct sunlight (insolation).
Don't touch or manipulate the humidity 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)