

REED

Model LM-81HT Thermo-Hygrometer



Instruction Manual

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Features

- Tiny bone shape with lightweight and small size case design are suitable for handling with one hand
- Wristlet design provides extra protection to the instrument especially for user one hand operation
- High precision thin-film capacitance humidity sensor with fast response to the humidity variety
- Built-in microprocessor circuit assures excellent performance and accuracy
- Concise and compact buttons arrangement, easy operation
- Memorize the maximum and minimum value with recall
- °C/°F selectable by pressing button on the front panel.
- Multi channels display for relative humidity and temperature measured values at the same time
- Hold function to freeze the current reading value

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Specifications

General Specifications

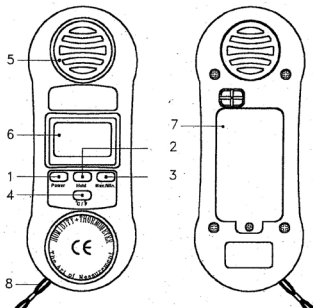
Display	8 mm LCD display
Measurement	Humidity and Temperature
Operating Humidity	Max. 80% RH.
Operating Temperature	0 to 50°C (32 to 122°F)
Over Input Display	Indication of “- - - -”
Power Supply	006P DC 9V battery (Heavy duty type)
Power Consumption	Approx. DC 6.2 mA
Weight	160g (battery included)
Dimensions	156 H x 60 W x 33 D mm (6.14 x 2.36 x 1.29”)
Accessories	Optional carrying case also available (Model CA-52A)

Electrical Specifications (23 ± 5°C)

Measurement	Range	Resolution
Humidity	10 to 95 %RH	0.1 %RH
Temperature	32 to 122°F	0.1°F
(thermister)	0 to 50°C	0.1°C
Measurement	Range	Accuracy
Humidity	10 to 95 %RH	< 70% RH : ± 4 %RH ≥70% RH : (4 %rdg +1.2 %RH)
Temperature	32 to 122°F	± 2.5°F
(thermister)	0 to 50°C	± 1.2°C

Instrument Description

- 1 - Power Button
- 2 - Hold Button
- 3 - Max./Min. Button
- 4 - °C/°F Button
- 5 - R.H./TEMP. Sensor
- 6 - LCD display
- 7 - Battery Compartment / Cover
- 8 - Wristlet



Measuring Procedures

1. Power on the instrument by pressing the “Power Button” (#1, above).
2. At the same time the reading value of relative humidity and temperature will be displayed on the LCD display. Pressing the “°C/°F Button” (#4, above) will select the temperature reading unit to °C or °F
3. When the meter is applied in a new environment, a few minutes are required to reach the stable situation

Additional Functions

Hold Function

Pressing the “Hold Button” (#2, above) will freeze the current value with a “HOLD” symbol on the display. Press again to release the hold function.

Data Record Function

1. The Data Record function records & displays the maximum and minimum reading values. Start the Data Record function by pressing the “Max./Min. Button” (#3, above) once. There will be a “REC” symbol on the display.
2. With the REC symbol on the display:
 - (a) Press the “Max./Min. Button” (#3, above) once and the “Max” symbol along with the maximum value will appear on the display.

continued ...

NOTE: If you intend to delete the maximum value, just press the “Hold Button” (#2, page 4) for a while, and then the display will show the “REC” symbol only & execute the memory function continuously.

(b) Press the “Max./Min. Button” again, the “Min” symbol along with the minimum value will appear on the display.


NOTE: If you intend to delete the maximum value, just press the “Hold Button” (#2, page 4) for a while, and then the display will show the “REC” symbol only & execute the memory function continuously.

(c) To exit the memory record function, press the “Max./Min. Button” continuously for at least 2 seconds. The display will revert to the current reading.

Auto Power Off

In order to prolong the battery life, the instrument has “Auto Power Off” function. The meter will switch off automatically if no buttons are pressed for around 10 minutes.

Battery Replacement

1. When the left corner of the LCD display shows the low battery symbol “

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