

Instruction Manual

RS-1365

Auto-timer Datalogging Temperature/Humidity Meter

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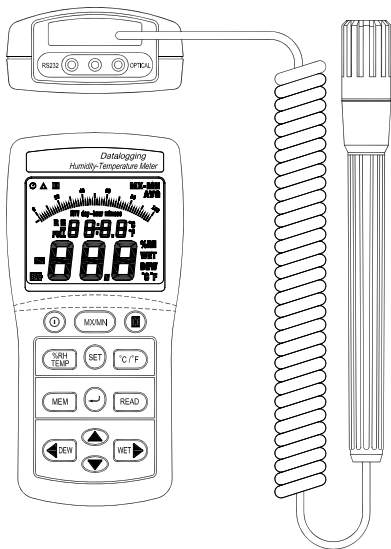


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1. SPECIFICATIONS

Display: LCD dual-display with pseudo-analogue bargraph scale.

Measurement range:

Humidity: 10% to 95% RH

Temperature: -20 to +60°C / -4 to +140°F

Resolution: 0.1% RH, 0.1°C, 0.1°F

Accuracy (after calibration):

Humidity: $\pm 3\%$ RH (at 25°C, 30 to 95% RH).

$\pm 5\%$ RH (at 25°C, 10 to 30% RH).

Temperature: $\pm 0.5^\circ\text{C}$, $\pm 0.9^\circ\text{F}$

Sensor type:

Humidity: Precision capacitance sensor.

Temperature: Thermistor sensor.

Response time:

Humidity: 45% RH to 95% RH ≤ 1 min.

95% RH to 45% RH ≤ 3 min.

Temperature: 10°C / 2 sec

Sampling rate: 2 times per second.

Manual data memory capacity: 99 sets.

Auto data memory capacity: 15000 sets.

RS-232 to USB optical interface jack.

Auto power-off time: 30 minutes.

SPECIFICATIONS/EN

Operating temperature & humidity:
0 to 60°C, below 95% RH. (No condensation)

Storage temperature & humidity:
-10 to 60°C, below 70% RH.

Power supply: Qty 6 x 1.5V size AAA batteries.

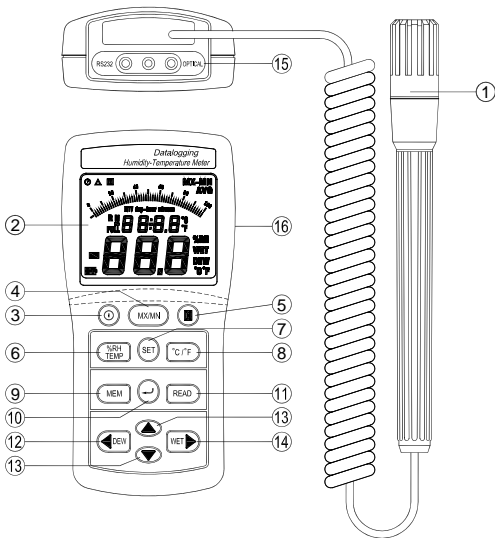
Battery life: Approx. 200 hours.

Weight: 235g

Dimensions: 150x72x35 mm

Supplied accessories: Instruction manual, Qty. 6x1.5V AAA
batteries, RS-232 to USB optical cable,
Software.

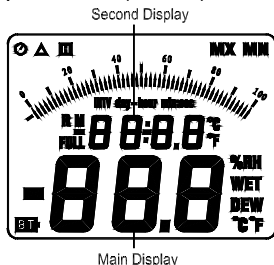
2. FRONT PANEL DESCRIPTION



- (1) Humidity & temperature sensor probe
- (2) LCD display
- (3) **ⓐ** Power button: Press the **ⓐ** button to turn the meter on or off.
- (4) MX/MN button: Press the MX/MN (MAX/MIN) button to read the Maximum and Minimum values alternately. Press the MX/MN button for 2 seconds to exit MX/MN mode.

- (5) **[H]** Hold button: Press the **[H]** button to freeze or unfreeze the display readings. In **[H]** mode, press the %RH / TEMP, °C / °F, DEW or WET button to select the desired readings.
- (6) %RH/TEMP button: Press the %RH/TEMP button to display the reading of %RH and °C / °F on the main display and secondary display alternately.
- (7) Set button:
- ① Enter the MX/MN mode and press the SET button to cycle through the elapsed time and the real time of Maximum or Minimum as displayed on the LCD.
 - ② Press SET button for 2 seconds to enter the auto-timer datalogging setting mode, the LCD will display "Δ" mark.
 - ③ The "SET" button is inoperative when the auto-timer datalogging function is enabled (Δ is shown on the LCD display). Press the "↵" enter button to exit from the auto-timer datalogging function. The SET button will then operate normally during the next set-up procedure.
- (8) °C / °F button: Press the °C/°F button to temperature units between Celsius (°C) and Fahrenheit (°F).
- (9) MEM button: Manual data memory control key.
- (10) **↵** ENTER button:
- ① In READ mode, press the **↵** enter button to exit READ mode.
 - ② In the auto-timer datalogging setting mode, press the **↵** enter button to store the setting time.
 - ③ In the auto-timer datalogging setting mode, press the **↵** enter key to exit this mode.

- (11) READ button: Manual memory data read button.
- (12) ◀ DEW button:
- ① Press the DEW button to display "Dew-point" temperature reading on the main display.
 - ② Press the ◀ cursor key to move the cursor left to the desired position to set the time.
- (13) ▲ ▼ keys:
- ① In the auto-timer datalogging setting mode, press the ▲ or ▼ button to increase or decrease the value.
 - ② In READ mode press the ▲ or ▼ button to increase or decrease the displayed memory location.
- (14) WET ▶ key:
- ① Press the WET button to display the "Wet-bulb" temperature reading on the main display.
 - ② Press the ▶ cursor key to move the cursor right to the desired position to set the time.
- (15) RS-232 to USB optical output socket: PC interface.
- (16) AC adaptor input socket (DC 9V).



3. MEASURING PROCEDURE

3-1 Humidity measurement:

- ① Press the “**ⓘ**” button to turn the meter on.
- ② The display will show the humidity reading value (% RH) directly on the main display.
- ③ As the humidity sensor may not respond immediately to a change of humidity in the environment, allow the reading to stabilize before noting the value.

3-2 Temperature measurement:

- ① Press the “**ⓘ**” button to turn the meter on.
- ② Press the °C / °F button to select “°C” or “°F” unit.
- ③ The display will show the temperature reading (°C or °F) directly on the secondary display.

3-3 Dew-point temperature measurement:

- ① Press the “**ⓘ**” button to turn the meter on.
- ② Press the DEW button to display the dew-point temperature reading on the main display. Press the DEW button again to exit this mode.

3-4 Wet-bulb temperature measurement:

- ① Press the “**ⓘ**” button to turn the meter on.
- ② Press the WET button to display the wet-bulb temperature reading on the main display. Press the WET button again to exit this mode.

3-5 Maximum & minimum recording measurement:

- ① Press the “MX/MN” button to enter recording mode and the auto power-off function will be disabled. If the auto-timer datalogging function is not set, the timer will be started from zero.
- ② Press the “MX/MN” button to alternate the display between maximum (MAX) and minimum (MIN) readings.
- ③ Press the SET button to alternate the display between elapsed time and the real time of the Maximum or Minimum values displayed on the LCD. When in auto-timer datalogging setting mode, the displayed elapsed time will be replaced by real-time.
- ④ 4 sets of data are recorded, including the main reading and subsidiary reading as follows:
Max. humidity reading with its associated temperature reading.
Min. humidity reading with its associated temperature reading.
Max. temperature reading with its associated humidity reading.
Min. temperature reading with its associated humidity reading.
- ⑤ When this mode is selected, the dew-point or wet-bulb temperature may be read by pressing the DEW or WET button respectively.
- ⑥ Press the “MX/MN” button and hold it down for 2 seconds to exit MX/MN and Time mode.

