



INSTRUCTION MANUAL

MT91

MINI HYGROMETER



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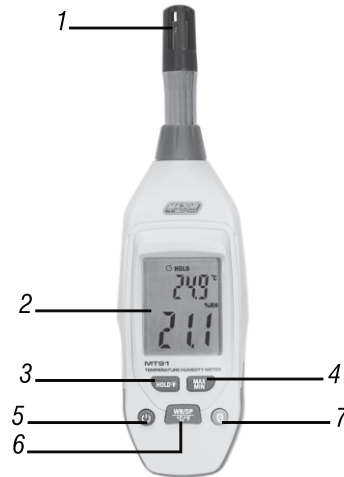
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1. Meter Description

- 1- Temperature/Humidity Sensor
- 2- LCD Display
- 3- Data Hold/Backlight button
- 4- MAX/MIN button
- 5- Power on/off button
- 6- Temperature button
- 7- Bluetooth button



2. Features

1. Range: 0.0 ~ 100.0%RH, -20.0°C ~ 60.0°C (-4.0°F ~ 140.0°F);
2. Range Resolution: 0.1%RH, 0.1°C/0.1°F
3. Dual Display Temperature & Humidity.
4. Bluetooth 4.0
5. MAX/MIN
6. HOLD lock and backlight
7. Measurable Dry bulb temperature, Wet bulb temperature, Dew point Temperature
8. Temperature unit switch
9. Auto power off, Disable auto-power off.

3. Specifications

Function	Range	Resolution	Accuracy
Humidity	0 - 100%RH	0.1%RH	±3.5%RH (20 - 80%)
			±5%RH (0 - 20&80 - 100%)
Dry bulb temperature	-20 - 60°C	0.1 °C/°F	±0.5°C/0.9°F (0 - 40°C)
	-4 - 140°F		±1°C/1.8°F (-20 - 0&40 - 60 °C)
Wet bulb temperature	0 - 60°C	0.1 °C/°F	±0.5°C/0.9°F (0 - 40 °C)
	32 -140°F		±1°C/1.8°F (40 - 60 °C)
Dew point temperature	-20.0 - 60°C	0.1 °C/°F	±0.5°C/0.9°F (0 - 40 °C)
	-4 - 140°F		±1°C/1.8°F (-20 - 0&40 - 60°C)

Display

Dual digital LCD display with backlight

Sensor Type

Humidity: Accurate capacitance sensor
Temperature: Thermistor

Low battery indication

The low battery signal "E3" flash when battery voltage drops below 7.2V; The backlight and low battery signal "E3" flash twice when battery voltage drops below 6.5V, then auto power off.

Operating condition

0 ~ 50°C(32 ~ 122°F) < 80%RH non-condensing

Storage condition

-20 ~ 60°C(-4 ~140°F) <80%RH non-condensing

Power

1 x 9V battery.

Dimension


204 (L) X 54 (W) X 36 (H) mm

Weight.

172g

4. Operation instructions

Power on:

Press  button to power on, system default auto power off. Hold down the button to power on and disable auto power off function. Hold Down the button again to enable the auto power off function

Power off:

Press  button to power off.

Auto-power off:

If the meter is not active for 10 minutes, it will Auto-power off. The auto-power off sign "E3" displays in the left corner of the LCD. If the  button is held down for over 1 minute, it will be recognised as a faulty operation and the instrument will auto power off.

Temperature:

Press to switch the measure temperature type: NULL (dry bulb temperature)→WB (wet bulb temperature)→DP (Dew point temperature)→NULL (dry bulb temperature), cycle in this order. Default measure dry bulb temperature; hold down the temperature button to switch temperature unit, and cycle in turn °C→°F→°C, default unit is the last unit before power off.

Free software for Bluetooth application:

Download Meterbox Pro on iOS and Android devices and select Environmental Meter

Bluetooth:

Hold down to enable/disable the Bluetooth communication function

MAX/MIN:

Press MAX/MIN button and "MAX" appears on the display. The LCD is now displaying the maximum reading of the selected parameter. The display reading will not change until a higher reading is registered. Press the MIN/MAX button and "MIN" appears on the display. The LCD is now displaying the minimum reading of the selected parameter. The display reading will not change until a lower reading is registered. Press the MIN/MAX button to exit the mode. Cycle in order: NULL→MAX→MIN→NULL.

HOLD/Backlight:

Press Hold/backlight Button to enter hold function, the LCD displays "HOLD". On hold mode, only the power button and Hold/backlight button is enabled. Press the button again to disable the hold function (Hold is no longer on LCD). Hold down the button to enable/disable the backlight. (Note: button 2, 3, 4, 5 can be enabled only when the instrument is powered on.)

Maintenance:

The instrument should be cleaned with a damp cloth and non-corrosive cleanser when necessary. The instrument must be kept at a proper temperature and humidity environment. If the instrument will not be used for an extended period of time, please remove the battery.

Battery Replacement:

If the low battery signal appears on the LCD display, it indicates that the battery should be replaced. Open the battery cover with screwdriver, then replace the used battery with a new battery.