

Minimum Temperature & Humidity reading →



Minimum Temperature & Elapsed time (min : sec) →



Minimum Temperature & Elapsed time (day : hour) →



Example: Maximum Temperature Recorder is 68°F, Elapsed time is 0 day, 23 hours, 28 minutes and 53 seconds.

It's Humidity is 62.6%RH.

c. Press "MX/MN" key to enter the recorder mode and start the elapsed timer. The auto power off function must be cancelled before this operation.

d. Press the "MX/MN (MAX/MIN)" key to cycle through the Maximum Humidity & Temperature.

Notes:

• MX/MN Hold with Time Stamp:

The timer function in MAX/MIN mode is the same as the "Stop-watch" mode, and the maximum Time period for the timer is 8 hours. Once you press the Timer Button, you can capture the MAX/MIN reading for Temp. or Humidity during the 8 hours or one period of time.

• If you can not see the MAX/MIN Reading, updating, this means the measured Humidity and Temperature Data did not exceed the recorded maximum or minimum Humidity or Temperature Reading.


• If the MAX/MIN Reading is updating, this means the measured Humidity and Temperature Data Exceeded the recorded maximum or minimum, Humidity or Temperature Data.

Maintenance:

1. Cleaning:

Periodically wipe the case with a damp cloth and mild detergent. **DO NOT** use abrasives or solvents. Clean and dry as required.

2. Battery Replacement:


LCD display will show the  symbol when the battery power is not sufficient for accurate testing. Replace with new batteries.

Setting Auto Power Off Mode:

The meter will be Auto power off if there is no key pressed in 30 minutes. Auto power off function is on each time you turn on the meter and is automatically disabled when in MX/MN mode.

Select different time frame of auto power off function via the following selection:

- 001: To disable auto power off function.
- 002: Auto power off in **one** minute.
- 003: Auto power off in **three** minutes.
- 004: Auto power off in **five** minutes.
- 005: Auto power off in **ten** minutes.
- 006: Auto power off in **fifteen** minutes.
- 007: Auto power off in **thirty** minutes.
- 008: Auto power off in **fifty-nine** minutes.

1. Press 1 key to turn off the meter.
2. Press and hold down the **HOLD** key, then press  **Power** key to turn on the meter. Wait until main display shows 001 (or any other time frame you wish.)
3. Press the **HOLD** key to display the desired auto power off time.
4. Press the **MX/MN** key to select the desired auto power off time.



Example: Auto power off in **fifteen** minutes.

SPECIFICATIONS

Display: LCD Dual display.

Measurement Range:

Humidity: 1%~99% RH
Temperature: -4°F~140°F (-20°C~60°C)

Resolution: 0.1% RH , 0.1°F (0.1°C)

Accuracy (after calibration):

Humidity: 3% RH (at 25°C, 30~99% RH)
5% RH (at 25°C, 1~30% RH)
Temperature: 1.5°F, (0.8°C)

Sensor Type:

Humidity: Precision capacitance sensor.
Temperature: Thermistor sensor.

Response Time: Humidity:

45% RH 95% RH 1 min
95% RH 45% RH 3 min
Temperature: 10°C / 2 seconds

Sampling Rate: 2 times per second

Auto Power Off: 30 minutes

Operation Temperature & Humidity:

0°C to 60°C, below 95% RH
(no condensation)

Storage Temperature & Humidity:

-10°C to 60°C , below 70% RH

Power Supply:

Single 9V battery 006P 9V or
IEC6F22, or NEDA 1604.

Battery Life: Approximately 200 hours



Mastercool[®] Inc.

"World Class Quality"

52232 Humidity / Temperature Meter

Instruction Manual

52232 Humidity/Temperature Meter

- Dual LCD Display reads Temperature & Humidity Simultaneously
- Wet Bulb Ready
- MAX/MIN with Time Stamp
- Data Hold Function
- Temperature in °F or °C
- Auto Power OFF
- Temperature Range: -4°F to 140°F (-20 to 60°C)
- Humidity: 1% RH to 99% RH
- Resolution: 0.1°F / 0.1°C / 0.1 RH
- Accuracy: ± 1.5°F / ± 0.8°C / ± 3% RH

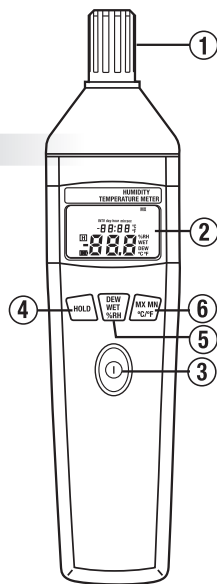


52232 Humidity / Temperature Meter

Instruction Manual

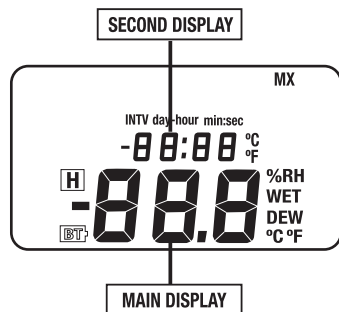
FRONT PANEL DESCRIPTION

- ① **Humidity & Temperature Sensor probe**
- ② **Display**
- ③ **Power Key:** Press the **Ⓚ** Power key to turn the meter on or off.
- ④ **Hold Key:**
 - a) Press the **H** Hold Key to freeze or unfreeze the display readings. In the **H** Hold mode, press the **DEW/WET/%RH** key to select desired display readings.
 - b) Press and hold down the **H** Hold key 2 seconds to exchange the main display and second display reading. The setting change will be retained during power down.
- ⑤ **DEW/WET/%RH Key:** Press the **DEW/WET/%RH** key to cycle through the Humidity, DEW point and WET bulb temperature reading on the main display.



⑥ MX/MN KEY, °C/°F Key:

- a) Press MX/MN (MAX/MIN) key to cycle through the –
 - Maximum Humidity & Temperature →
 - Maximum Humidity & Elapsed time (min : sec) →
 - Maximum Humidity & Elapsed time (day : hour) →
 - Maximum Temperature & Humidity reading →
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 - Minimum Humidity & Elapsed time (min : sec) →
 - Minimum Humidity & Elapsed time (day : hour) →
- b) **°C/°F Key:** Press and hold down the **°C/°F** key for 5 seconds to switch between Celsius (°C) and Fahrenheit (°F) units.



MEASURING PROCEDURE

1. Humidity Measurement:

- a. Press the **Ⓚ** Power key to power on the meter.
- b. The display will show the humidity reading value (% RH) directly on the main display.
- c. When testing humidity value of a different environment, please wait a few minutes in order to obtain a stable (% RH) reading.



2. Temperature Measurement:

- a. Press the **Ⓚ** Power key to power on the meter.
- b. Press and hold down the **°C/°F** key for 5 seconds to switch between Celsius (°C) and Fahrenheit (°F) units.
- c. The display will show the Temperature reading in (°C or °F) directly on the second display.
- d. When the meter is on, it is set to the temperature units that was in use when the meter was last turned off.



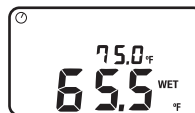
3. Dew Point Temperature Measurement:

- a. Press the **Ⓚ** Power key to turn on the meter.
- b. Press **DEW/WET/%RH** key to select display dew point temperature reading on the main display.



4. Wet Bulb Temperature Measurement:

- a. Press the **Ⓚ** Power key to turn on the meter.
- b. Press **DEW/WET/%RH** key to select display wet bulb temperature reading on the main display.



5. Maximum and Minimum Recorder Measurement:

- a. Press **"MX/MN"** key to enter the recorder mode and start the elapsed timer. The auto power off function must be cancelled before this operation.
- b. Press the **"MX/MN (MAX/MIN)"** key to cycle through the Maximum Humidity & Temperature. →



Maximum Humidity & Elapsed time (min : sec) →



Maximum Humidity & Elapsed time (day : hour) →



Example: Maximum Humidity Recorder is 70.0%RH, Elapsed time is 1 day, 2 hours, 10 minutes and 38 seconds. It's temperature is 77.0°F.

Maximum Temperature & Humidity reading



Maximum Temperature & Elapsed time (min : sec) →



Maximum Temperature & Elapsed time (day : hour) →



Example: Maximum Humidity Recorder is 89.6°F, Elapsed time is 3 days, 18 hours, 28 minutes and 58 seconds. It's Humidity is 55.0%RH.

Minimum Humidity & Temperature reading →



Minimum Temperature & Elapsed time (min : sec) →



Minimum Temperature & Elapsed time (day : hour) →



Example: Minimum Humidity Recorder is 40.0%RH, Elapsed time is 2 days, 12 hours, 48 minutes and 25 seconds. It's Temperature is 72.0°F.