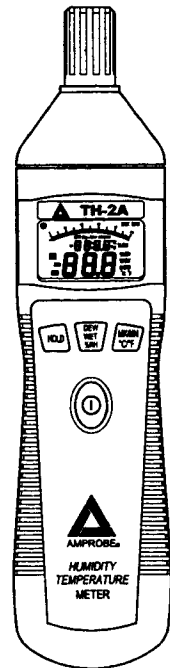




# Humidity / Temperature Meter

## TH-2A

### INSTRUCTION MANUAL



## 1. SPECIFICATIONS

**Display :** LCD Dual display and Analog scale display.

**Measurement Range :**

Humidity : 10% ~ 95% RH

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

**Resolution :** 0.1% RH , 0.1°C , 0.1°F

**Accuracy ( after calibration ) :**

Humidity : ± 3%RH ( at 25°C , 30 ~ 95% RH ) ,

± 5%RH ( at 25°C , 10 ~ 30% RH ) ,

Temperature : ± 0.8°C , ± 1.5°F

**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 sec

**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 NEDA1604.

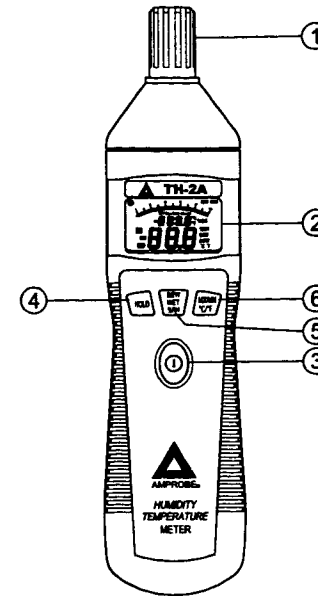
**Battery Life :** Approx. 150 hours.

**Weight / Dimensions :** 200g / 225(L) x 50(W) x 38(H)mm

**Accessories :** Instruction manual, Battery and Soft case.

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## 2. FRONT PANEL DESCRIPTION



(1) Humidity & Temp. Sensor probe

(2) Display

(3) Power key : Press Power key to turn the meter on or off.

(4) Hold key :

a). Press Hold key to freeze or unfreeze the display readings. In mode, press DEW / WET / %RH key to select desired display readings.

b). Press and hold down Hold key 2 seconds exchange the main display and second display reading.

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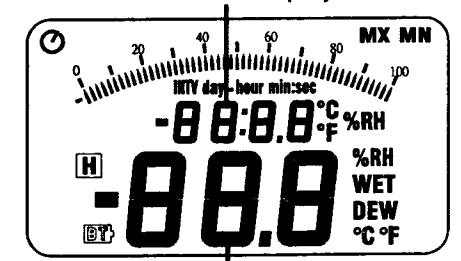
(5) DEW / WET / %RH key : Press DEW / WET / %RH key to cycle through the Humidity, DEW point and WET bulb temperature reading on the main display.

(6) MX/ MN , °C / °F key :

a). MX/MN key : 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 → Maximum Temperature & Elapsed time (min : sec) → Maximum Temperature & Elapsed time (day : hour) → Minimum Temperature & Humidity reading → Minimum Temperature & Elapsed time (min : sec) → Minimum Temperature & Elapsed time (day : hour). Minimum Humidity & Temperature reading → Minimum Humidity & Elapsed time (min : sec) → Minimum Humidity & Elapsed time (day : hour) → Press MX/MN key 2 seconds to exit MX/MN mode.

b). °C / °F key : Press and hold down °C / °F key for 5 seconds to switch between Celsius (°C) and Fahrenheit (°F) units.

Second Display



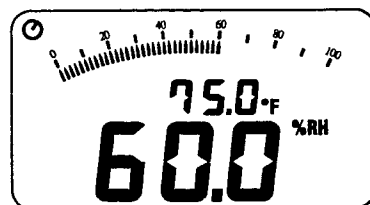
Main Display

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## 3. MEASURING PROCEDURE

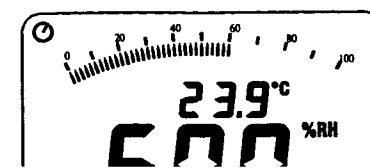
### 3-1 Humidity Measurement :

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



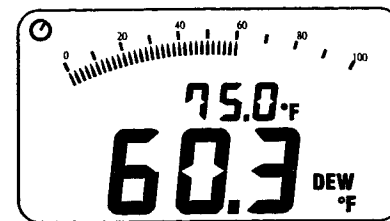
### 3-2 Temperature Measurement :

- Press the "Power" key to power on the meter.
- Press and hold down °C / °F key for 5 seconds to switch between Celsius (°C) and Fahrenheit (°F) units.
- The display will show the Temperature reading (°C or °F) directly on the second display.



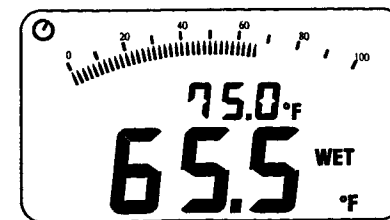
### 3-3 Dew Point Temperature Measurement :

- Press the "Power" key to power on the meter.
- Press DEW / WET / %RH key to select display dew point temperature reading on the main display.



### 3-4 Wet Bulb Temperature Measurement :

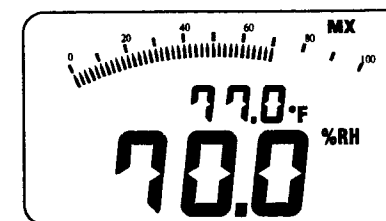
- Press the "Power" key to power on the meter.
- Press DEW / WET / %RH key to select display wet bulb temperature reading on the main display.



### 3-5 Maximum and Minimum Recorder Measurement:

- Press "MX/MN" key to enter the recorder mode and start elapsed timer. The auto power off function must be

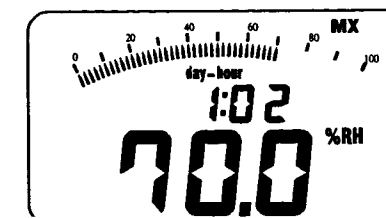
MX/MN key : Press MX/MN (MAX/MIN) key to cycle through the Maximum Humidity & Temperature →



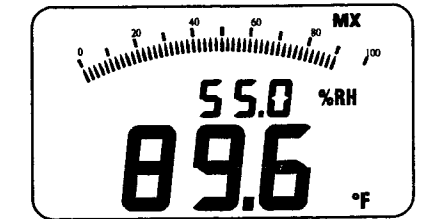
Maximum Humidity & Elapsed time (min : sec) →



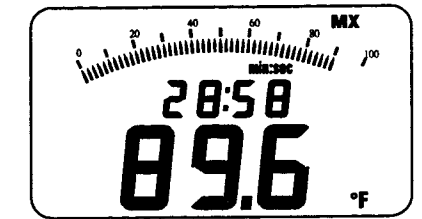
Maximum Humidity & Elapsed time (day : hour) →



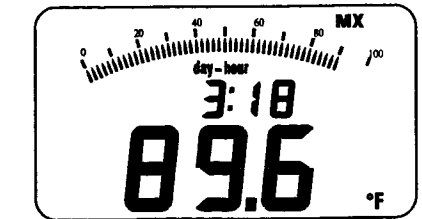
Maximum Temperature & Humidity reading →



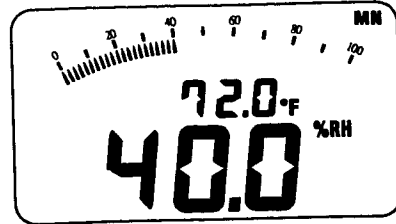
Maximum Temperature & Elapsed time (min : sec) →



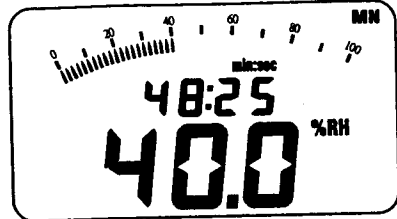
Maximum Temperature & Elapsed time (day : hour) →



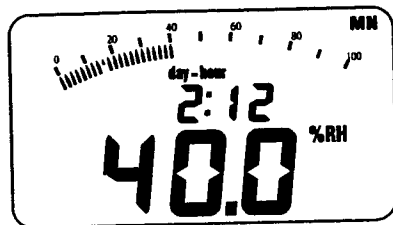
Minimum Humidity & Temperature reading →



Minimum Humidity & Elapsed time (min : sec) →

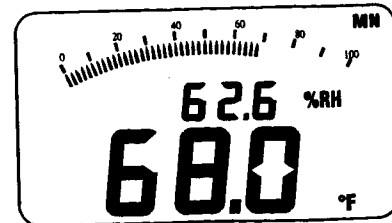


Minimum Humidity & Elapsed time (day : hour) →

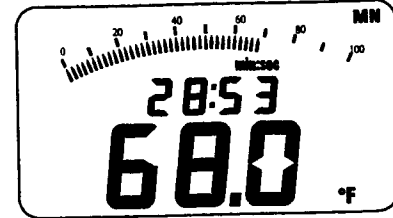


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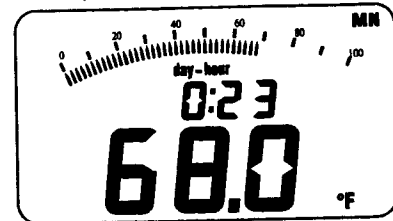
Minimum Temperature & Humidity reading →



Minimum Temperature & Elapsed time (min : sec) →



Minimum Temperature & Elapsed time (day : hour).



Press MX/MN key 2 seconds to exit MX/MN mode.

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- ③ Under this mode, you can also get the Dew point or Wet Bulb Temperature by pressing the DEW/WET/%RH key.
- ④ Press "MX/MN" key and hold down for 2 seconds to exit MX/MN mode.

### 3-6 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 : In 1 minutes to be auto power off.
- 003 : In 3 minutes to be auto power off.
- 004 : In 5 minutes to be auto power off.
- 005 : In 10 minutes to be auto power off.
- 006 : In 15 minutes to be auto power off.
- 007 : In 30 minutes to be auto power off.
- 008 : In 59 minutes to be auto power off.

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

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- ④ Press MAX/MIN key to select.



## 4. MAINTENANCE

### 4-1 Cleaning :

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

### 4-2 Battery Replacement :

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

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## WARRANTY

Congratulations! Your new instrument has been quality crafted according to quality standards and contains quality components and workmanship. It has been inspected for proper operation of all of its functions and tested by qualified factory technicians according to the long-established standards of our company.

Your instrument has a limited warranty against defective materials and/or workmanship for <indicate length of the warranty> from the date of purchase provided that, in the opinion of the factory, the instrument has not been tampered with or taken apart.

Should your instrument fail due to defective materials, and/or workmanship during this <indicate length of the warranty> period, a no charge repair or replacement will be made to the original purchaser. Please have your dated bill of sale, which must identify the instrument model number and serial number and call the number listed below:

Repair Department  
 ATP – Amprobe, TIF, Promax  
 Miramar, FL  
 Phone: 954-499-5400  
 800-327-5060  
 Fax: 954-499-5454  
 Website: www.amprobe.com

Please obtain an RMA number before returning product for repair.

Outside the U.S.A. the local representative will assist you. Limited warranty covers repair and replacement of



Miramar, FL

Phone: 954-499-5400

Fax: 954-499-5454

www.amprobe.com