Instruction Manual

RS-1260

Humidity Temperature Meter

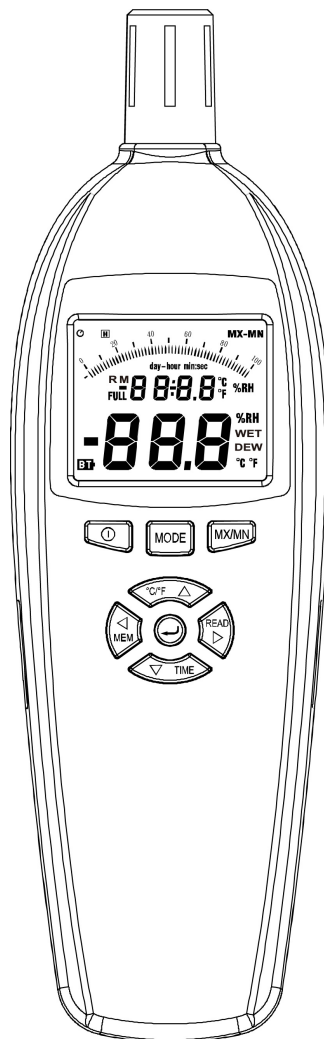EN FR IT DE ES

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1. SAFETY INFORMATION

Read the following safety information carefully before attempting to operate or service the meter.

Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

Environment conditions

① Altitude up to 2000 metres

② Relatively humidity 99% max.

③ Operation Ambient 0 to 60°C

④ Indoor use only

Safety symbols

$C\!\in$ Conforms to EU directives

2. SPECIFICATIONS

Display : LCD Dual display and Analogue scale display.

Measurement Range :

Humidity 1% to 99% RH

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

Resolution : 0.1% RH , 0.1°C, 0.1°F

Accuracy (after calibration) :

Humidity : ±3%RH (at 25°C, 30 to 99% RH).

±5%RH (at 25°C, 1 to 30% RH).

Temperature : ±0.5°C , ±0.9°F

Sensor Type :

Humidity : Precision capacitance sensor.

Temperature : Thermistor sensor.

Response Time :

Humidity : 45% RH $\rightarrow$ 95% RH$\leqq$1 min.

95% RH $\rightarrow$ 45% RH$\leqq$3 min.

Temperature : 10°C / 2 sec

Sampling Rate : 2 times per second.

Manual Data Memory Capacity : 99 sets.

Operation Temperature & Humidity :

0 to 60°C, below 99% RH. (no condensation)

Storage Temperature & Humidity :
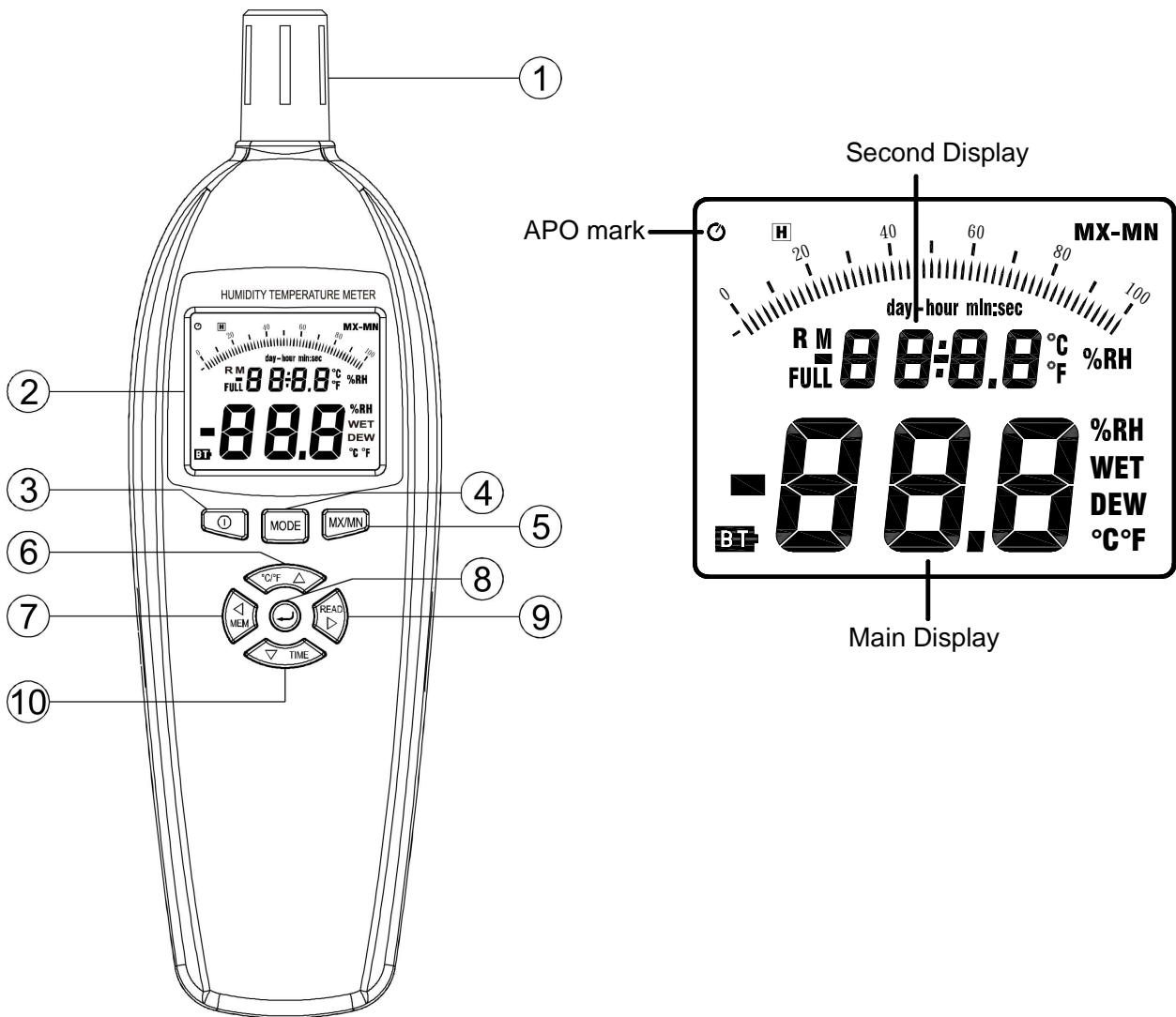
-10 to 60°C, below 70% RH.

Power Supply : 9V battery.

Battery Life : Approx. 300 hours.

Weight / Dimensions : 140g / 193 x 59 x 26 mm

Accessories Supplied : Instruction manual, battery.

3. FRONT PANEL DESCRIPTION

Second Display

APO mark

Main Display

(1) **Humidity & Temp. Sensor probe**

(2) **Display**

(3) ⏻ **key** :

① Press ⏻ key to power on the meter.

② Data hold function : Press ⓵ key to enter the data hold mode, the ⟨H⟩ symbol is displayed. In ⟨H⟩ mode, press ↵ key to alternate the display the of %RH and °C/°F readings between the main display and the secondary display or press "**MODE**" or "**°C/°F**" key to select desired display readings. Press ⓵ key again to exit this mode.

③ Press ⓵ key for 3 seconds to power off the meter.

(4) **MODE key** : Press "**MODE**" key repeatedly to select the reading of "Dew point" temperature, "Wet bulb" temperature and humidity or temperature on the main display.

(5) **MX/MN key** : Press "**MX/MN**" (MAX/MIN) key to repeatedly to select the reading of Maximum (MX), Minimum (MN) and current reading (MX – MN). Press this key for 3 seconds to exit this mode.

(6) **°C / °F △ key** :
  ① Press "**°C/°F**" key to switch the units between Celsius (°C) and Fahrenheit (°F).
  ② In the setting mode, press △ key to increase the parameter.

(7) ◁ **MEM key** :
  ① Each time the "**MEM**" key is pressed, one set of reading to will be stored to memory.
  ② Press ◁ cursor key to move the cursor left to the desired position and set the time.

(8) ↵ **ENTER key** :
  ① In the normal mode, press ↵ key to alternate the display the of %RH and °C/°F readings between the main display and the secondary display.
  ② In the setting mode, press ↵ key to store the setting parameter.

(9) **READ** ▷ **key** :
  ① Press "**READ**" key to enter the manual memory data reading mode. Press "**READ**" key for 3 seconds to exit this mode.
  ② Press ▷ cursor key to move the cursor right to the desired position and set the time.

(10). ▽ **TIME key** :
  ① Press "**TIME**" key to select between the display of the elapsed time or the real time.
  ② In the setting mode, press ▽ key to decrease the parameter.

4. MEASURING PROCEDURE

4-1 Humidity Measurement :

1. Press ⏻ key to power on the meter.

2. The display will show the humidity reading value (%RH) directly on the main display.

3. When the humidity value of the tested environment changes, please wait for few minutes to get the stable "%RH" reading.

4-2 Temperature Measurement :

1. Press ⏻ key to power on the meter.

2. Press "**°C/°F**" key for select "**°C**" or "**°F**" unit.

3. The display will show the Temperature reading (°C or °F) directly on the secondary display.

4-3 Dew Point Temperature Measurement :

1. Press ⏻ key to power on the meter.

2. Press "**MODE**" key to display dew point temperature reading on the main display. Press "**MODE**" key twice to exit dew point temperature reading.

4-4 Wet Bulb Temperature Measurement :

1. Press ⏻ key to power on the meter.

2. Press "**MODE**" key twice to display wet bulb temperature reading on the main display. Press "**MODE**" key again to exit wet bulb temperature reading.

4-5 Maximum and Minimum Recording Measurement :

1. Press "**MX/MN**" key to enter the recording mode, the "**MX**" symbol is displayed and the auto power off function will be disabled.

2. Press "**MX/MN**" key to cycle through the 6 sets of recorded data including main reading and subsidiary reading.
   Max. humidity reading (MX) with its temperature reading ➔
   Min. humidity reading (MN) with its temperature reading ➔
   Current humidity reading (MX – MN) with its temperature reading ➔
   Max. temperature reading (MX) with its humidity reading ➔
   Min. temperature reading (MN) with its humidity reading ➔
   Current temperature reading (MX – MN) with its humidity reading ➔

3. In the each set of recorded data, press **"TIME"** key to display the time of the recorded data. The real time will be displayed if the real-time setting function was performed at power on, otherwise the elapsed time will be displayed.

4. In the each set of recorded data, press the "MODE" key to display the recorded Dew point or Wet Bulb temperature.

5. Press Ⓞ key to hold the current MIN, MAX or current reading (MX – MN) reading and to stop recording of further readings, press Ⓞ key again to resume recording. (Previously recorded reading are not erased.)

6. Press "**MX/MN**" key for 3 seconds to exit this mode.

4-6 Manual Data Memory and Read Mode :

1. Clear the manual memorized data

① Press ⏻ key for 3 seconds to turn off the meter.

② Press and hold down "**MEM**" key, then press ⏻ key to turn on the meter, the "**CLr**" and "**no**" symbols are displayed.

③ Press △ or ▽ key to select "**YES**" symbol is displayed.

④ Press ↵ key to clear the manual memorized data.

2. Manual data memory

① Press "**MEM**" once to store one set of readings to the memory. At this moment, LCD will show the "**M**" symbol and the memory address number is shown in the secondary display. Total memory size is 99 sets.

② When memory is full, LCD will show "**FULL**" symbol.

3. Manual memory data READ

① Press "**READ**" key to enter READ mode, the LCD will show "**R**" symbol and the memory address number is shown in the secondary display

② Press "**READ**" key to select the desired memory address number data for display.

③ Press "**MODE**" key repeatedly to select the reading of "Dew point" temperature, "Wet bulb" temperature and humidity or temperature on the main display.

④ Press **"TIME"** key to display the time of the recorded data. The real time will be displayed if the Real-time setting function had been performed at power on when the reading was stored, otherwise the elapsed time will be displayed.

⑤ Press "**READ**" key for 3 seconds to exit this mode.

4-7 Setting Auto Power Off Mode :

The meter will Automatically power off if there is no further function in 30 minutes. The Auto power off function will be on every time the meter is switched on, but it will be disabled automatically when using the MX/MN mode.

Select auto power off time procedures :

1. Press ⏻ key for 3 seconds to turn off the meter.

2. Press and hold down "**READ**" key then press ⏻ key to turn on the meter, the "**APo**" symbol and the current auto power off time are displayed.

3. Press △ or ▽ key to choice the desired auto power off time. The choices are 0, 1, 3, 5, 10, 15, 30 and 59 minutes. If the choice is 0 minute will be disabled the auto power function, the Auto power off symbol " ⏰ " will disappeared.

4. Press ↵ key to store the choice.

4-8 Setting Real-Time Mode :

1. Press ⏻ key for 3 seconds to turn off the meter.

2. Press and hold down "**TIME**" key then press ⏻ key to turn on the meter, the "**SEt**" symbol, "**day‑hour**" symbol and the flashing numbers of day is displayed.

3. Press △ or ▽ key to set the **day** of the real-time.

4. Press ▷ key and move to the two flashing digits of hour.

5. Press △ or ▽ key to set the **hour** of the real-time.

6. Press ▷ key and move to the two flashing digits of minutes.

7. Press △ or ▽ key to set the **minute** of the real-time.

8. Press ▷ key and move to the two flashing digits of second.

9. Press △ or ▽ key to set the **second** of the real-time.

10. Press ↵ key to store the real-time.

4-9 User Calibration Procedure :
Use standard humidity meter to verify the reading.

1. Press and hold down "**°C/°F**" key then press ① key to turn on the meter.

2. Press △ or ▽ key to select the "**CAL %RH**" symbol is displayed.

3. Press ↵ key to enter humidity calibration mode.

4. Press △ ▽ ◁ and ▷ keys until the LCD value is same as the standard humidity meter.

5. Press ↵ key to store the calibrated value.

Use standard temperature meter to verify the reading.

1. Press and hold down "**°C/°F**" key then press ① key to turn on the meter.

2. Press △ or ▽ key to select the "**CAL °C**" or "**CAL °F**" symbol is displayed.

3. Press ↵ key to enter temperature calibration mode.

4. Press △ ▽ ◁ and ▷ keys until the LCD value is same as the standard temperature meter.

5. Press ↵ key to store the calibrated value.

5. MAINTENANCE

5-1 Cleaning :

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

5-2 Battery Replacement :

Note: The condition of the battery should be checked prior to use and changed if necessary.

The LCD display will show " BT " symbol when the battery power is not sufficient for accurate testing.

1. Remove discharged battery and insert new one, observing the correct polarity.

2. Dispose of the removed battery is accordance with local regulations.

3. Remove the battery from the meter, if the meter is not to be use for a long period of time.