Instruction Manual

RS-1360A

Digital Humidity/Temperature Meter

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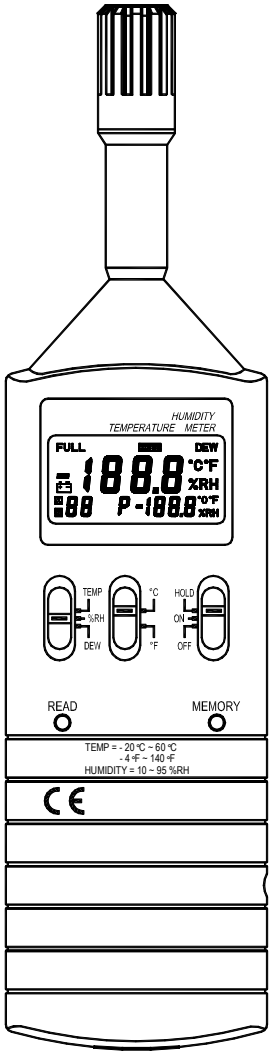

12/09/08 Version No. 00

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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 meters
② Relative humidity 95% max.
③ Operating Temperature 0 to 60℃
④ Indoor use only

Maintenance & Clearing :

① Repairs or servicing that is not covered in this manual should only be performed by qualified personnel.

② Periodically wipe the case with a dry cloth.
Do not use abrasives or solvents on this instrument.

Safety symbols:

CE Conforms to EU directives

2. SPECIFICATIONS

Measurement Range :
Humidity : 10% to 95% RH
Temperature : -20 to + 60℃, -4 to +140℉

Resolution : 0.1% RH, 0.1℃, 0.1℉

Accuracy : Humidity : ±3%RH (at 30 to 95% RH).
±5%RH (at 10 to 30% RH).
Temperature : ±0.8℃, ±1.5℉

Sensor Type : Humidity : precision capacitance sensor.
Temperature : NTC

Response Time : 45% RH → 95% RH ≦3 min
95% RH → 45% RH ≦5 min

Sampling Rate : 3 times per second.

Manual Memory Capacity : 99 sets

Auto Power off : Approx. 30 minutes

Performance : **Operating :** 0 to 60℃,below 95% RH
Storage : -10 to 60℃,below 70% RH

Power Supply : Single 9V Battery 006P 9V or IEC 6F22, or NEDA 1604.

Battery Life : Approx. 100 hours

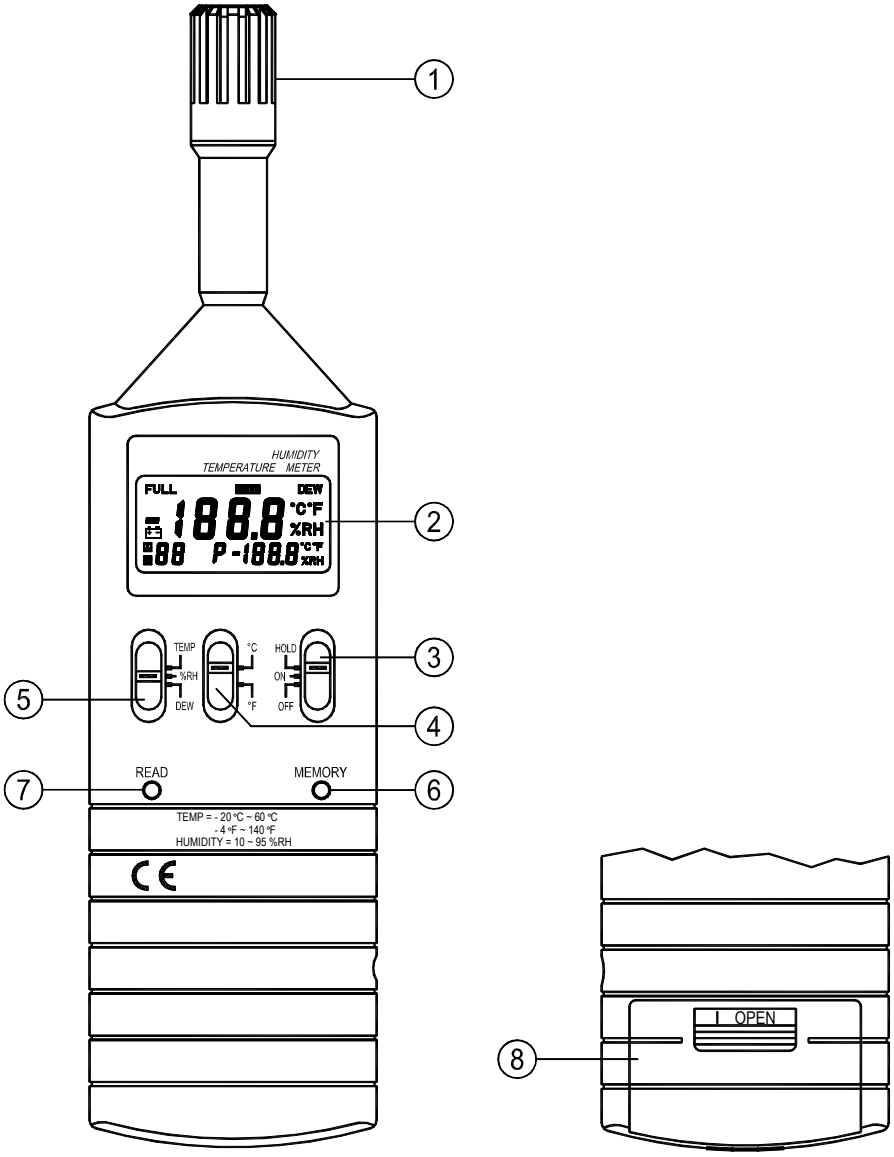
Size : 270x68x25mm

Humidity & Temp. sensor cap diameter: 20ϕ

Weight : Approx. 210g (including battery)

Accessories : Instruction manual, Battery, Carrying case.

3. CONTROLS AND FUNCTIONS



① Humidity & Temp. sensor cap

② Display

③ Power and data hold switch

④ ℃ / ℉ switch

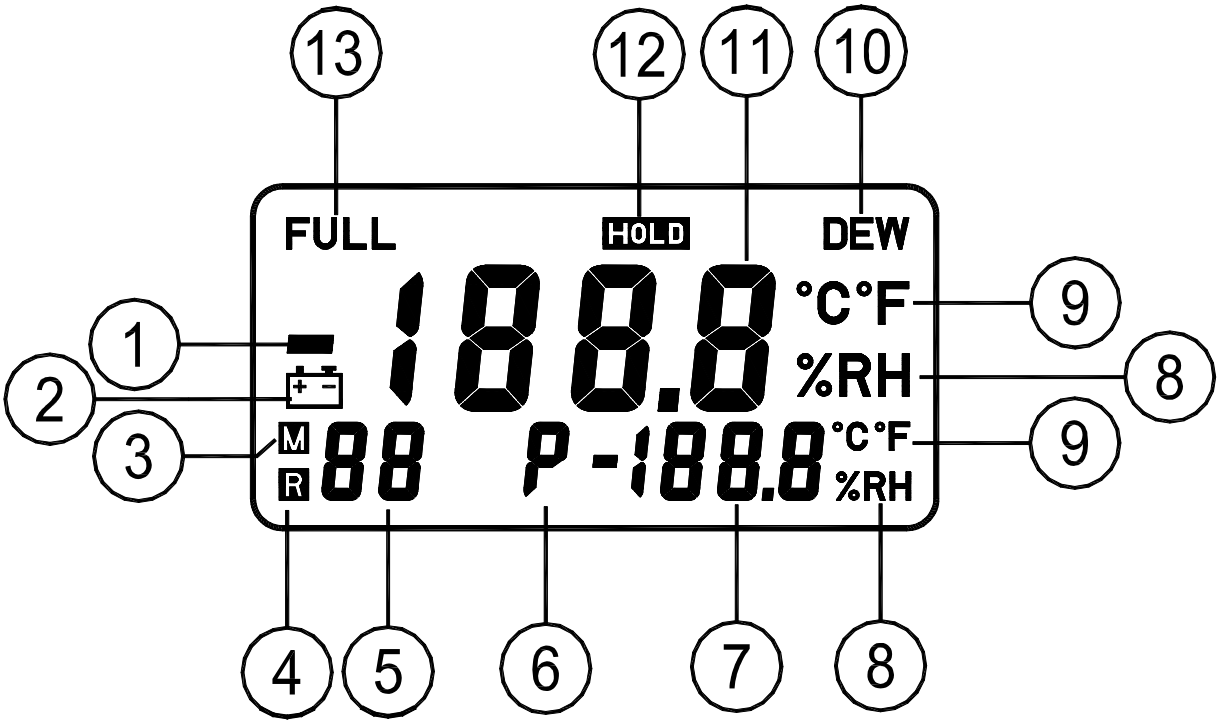
⑤ Main display (Temperature / %RH / Dew Point) on LCD switch.

⑥ Manual recording key

⑦ Manual recorded data reading key

⑧ Battery cover

4. LCD DISPLAY DESCRIPTION



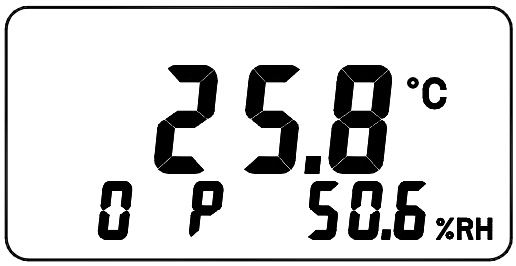
1. — :Negative sign	7. Measuring value (2nd display)
2. [+ −] : Low-battery	8. %RH
3. **M** : Data recording	9. ℃, ℉
4. **R** : Reading mode	10. DEW : Dew point temperature
5. No. of manual recorded data	11. Measuring value (main display)
6. P : Auto power off	12. **HOLD** : Data hold
	13. Memory FULL

5. MEASUREMENT

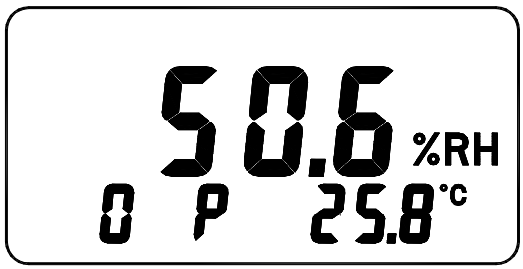
5-1 Temperature, humidity and dew point temperature measurement

1. Slide power switch to “ON” position.
2. Slide temperature units switch to desired ℃ or ℉ position.
3. Slide TEMP, %RH and DEW switch to desired position. (see below)

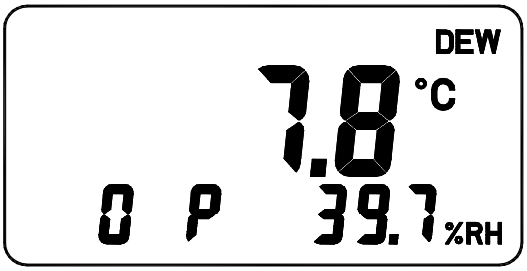
Temperature :



%RH :



DEW :

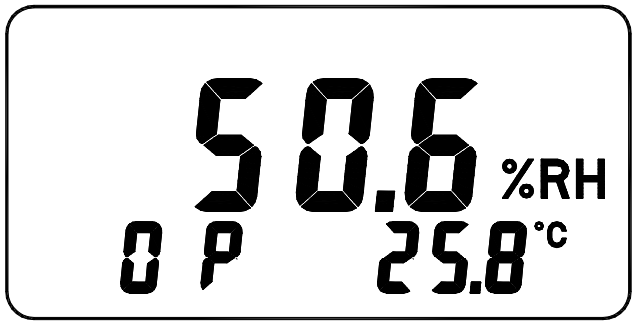


4. Slide power switch to “HOLD” position. Shows the “ **HOLD** ” symbol on the LCD. This is data holding mode.

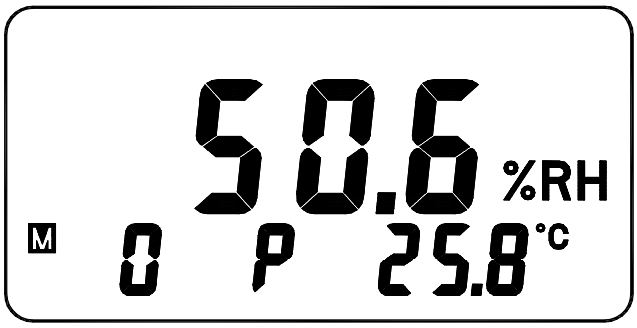
5. “ P ” symbol indicates that when there’s no operation on any switches / keys for 30 minutes from powering on, the meter will auto power off.

5-2 Manual Data Memory and Reading Mode

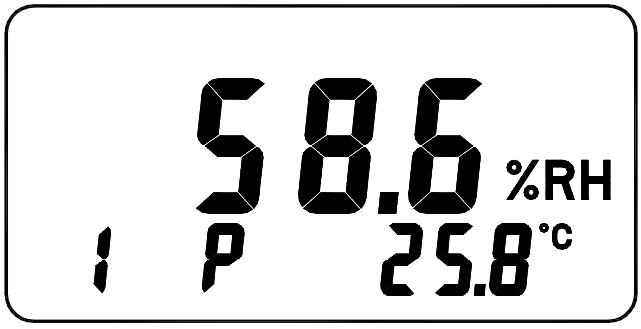
1. To Memorize the reading



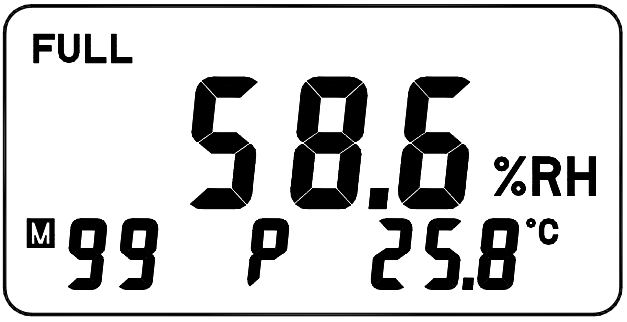
⇨Press “MEMORY” key momentarily.



⇨Shows the “ **M** ” symbol on the LCD about 0.5 second.

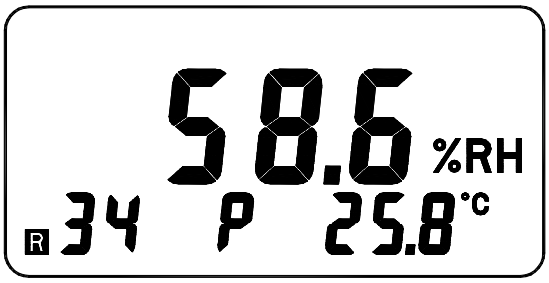


⇨The number of memorized records increases by 1 to the maximum of readings of 99.

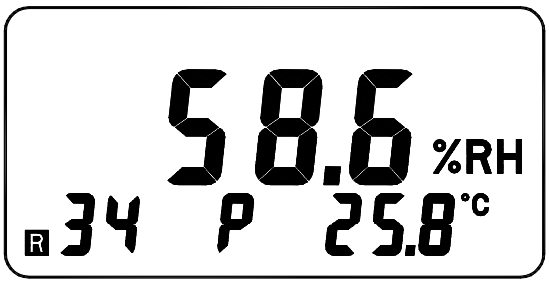


⇨When 99 sets, the “ **M** FULL” symbol will show on the LCD about 0.5 second. No further readings can be saved.

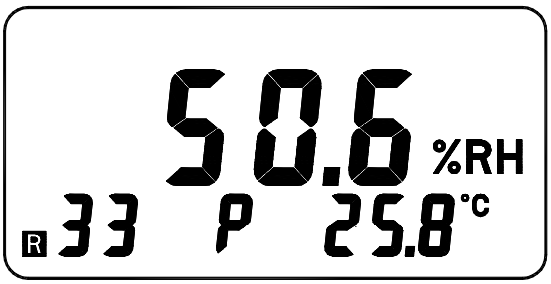
2. To Recall and Read Manual Memorized Reading



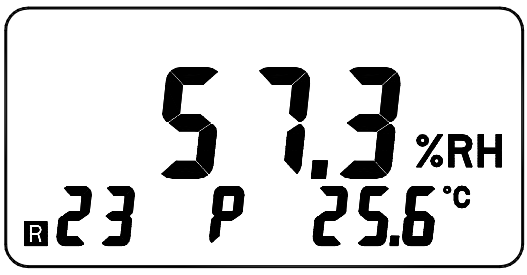
⇨Press ”READ” key momentarily to read manual recorded data. The “ **R** ” symbol will show on the LCD to indicate you are in manual read mode.



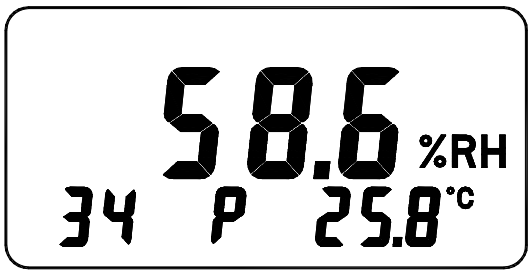
⇨The LCD shows the data from the 34th record.



⇨Press “READ” key again to read previous recorded data.

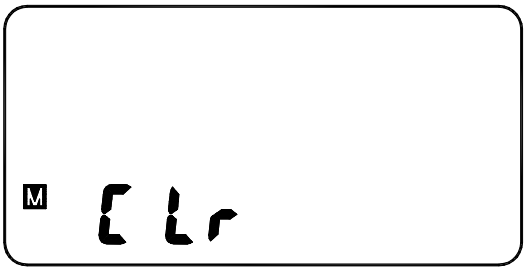


⇨Press “MEMORY” momentarily to decrease the displayed record by 10, continuing to press the “MEMORY” button momentarily will cycle the readings continually.



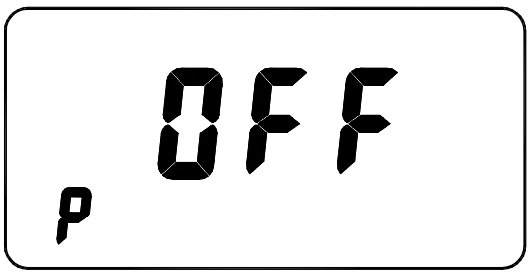
⇨ To exit the reading mode Keep Pressing “READ” key for about 2 seconds.

3. To Clear the manual memorized data



⇨Turn off the meter then keep pressing “MEMORY” key and turn on the meter until “ **M** CLr ” shows on the LCD to clear all memory data.

5-3 To Cancel auto power off mode



⇨Turn off the meter then keep pressing “READ” key and turn on the meter until “P OFF” symbol shows on the LCD, then the “P” symbol will disappear, exit the auto power off mode.

5-4 User calibration procedure

Use a standard calibrated humidity meter or humidity calibration capsules to verify the reading

1. Press and hold down “READ” and “MEMORY” key, then power until the LCD show the “CAL” symbol.
2. Press “READ” or “MEM” keys until the LCD value is same as the standard humidity meter.
3. Set power switch to “HOLD” position to store the calibrated value.
4. **It is recommended that the unit is fully calibrated at least once a year.**

6. BATTERY REPLACEMENT

1. If battery power is not sufficient the LCD will display . Replacement with one new battery, type 9V, is required.
2. Press battery cover and push in the direction of the arrow to open.
3. Disconnect battery from instrument and replace with a standard 9-Volt battery and replace battery cover.
4. Dispose of the used batteries in accordance with local regulations.