



**NIEUWKOOP**

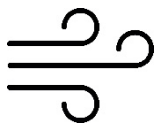
METEN.NL

# USER MANUAL



## RV2050

HUMIDITY & TEMPERATURE METER



TO MEASURE  TO KNOW

INDEX

|   |                              |   |
|---|------------------------------|---|
| 1 | INTRODUCTION .....           | 3 |
| 2 | LCD DISPLAY .....            | 3 |
| 3 | PART DESCRIPTION .....       | 4 |
| 4 | OPERATION INSTRUCTIONS ..... | 4 |
| 5 | TEMPERATURE FIGURE.....      | 5 |
| 6 | RELATIVE HUMIDITY TABLE..... | 5 |
| 7 | TECHNICAL PARAMETER.....     | 6 |



## 1 INTRODUCTION

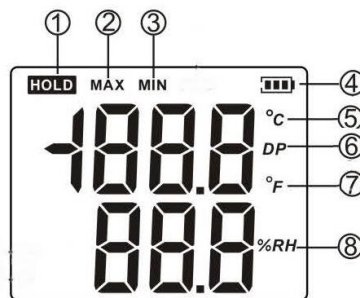
Our digital relative humidity and temperature meter is accurate, stable and reliable. It can be used on site within factories, laboratories, warehouses, quality control, air conditioning etc.

### Features

- 1) Dual display of the values on a large LCD screen
- 2) Measures temperature in both degrees Celsius as Fahrenheit and relative humidity
- 3) MAX/MIN measurement
- 4) Dew point measurement
- 5) °C/°F switch button
- 6) Low battery alert
- 7) Auto power off

## 2 LCD DISPLAY

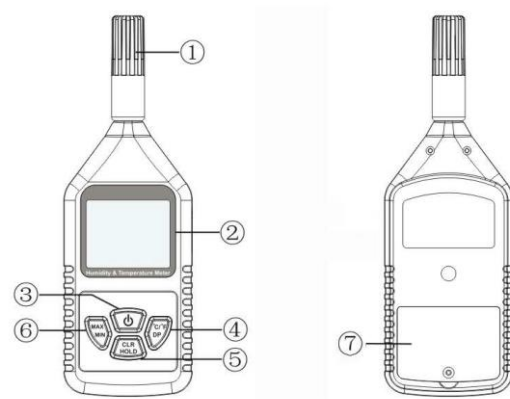
- 1) Value hold icon
- 2) Maximum reading icon
- 3) Minimum reading icon
- 4) Battery capacity icon
- 5) °C icon
- 6) Dew point icon
- 7) °F icon
- 8) Relative humidity icon





### 3 PART DESCRIPTION

- 1) Temperature and relative humidity sensor
- 2) LCD screen
- 3) On/Off button
- 4) Temperature scale choice button
- 5) Reading hold button
- 6) Maximum/minimum temperature and relative humidity measurement choice button
- 7) Battery compartment door



### 4 OPERATION INSTRUCTIONS

- 1) Open the battery compartment door and install the battery. (Note the polarity of the battery while placing)
- 2) Temperature scale choice button  
One short press on the °C/°F/DP button for choosing between Celsius and Fahrenheit. The default value is Celsius.
- 3) Dew point measurement  
Press and hold (approximately 5 seconds) the °C/°F/DP button.
- 4) Maximum and minimum temperature and relative humidity measurements  
One short press on the MAX/MIN button to start the maximum temperature and relative humidity measurement. Another short press on the button to start the minimum temperature/relative humidity measurement. Press once more on the °C/°F/DP button to return to the normal measuring mode.

#### Explanation function MAX/MIN measurements

When this function is in use, the meter remembers and holds the maximum or minimum temperature and relative humidity that it has measured in that session. If you want for example to measure the maximum temperature and are you moving from a cold to a warmer area, the meter will then remember and hold the highest measured value in that session. For the minimum measurement it works the other way around. The meter will then remember and hold the lowest measured value.

#### 5) Measurement hold

One short press on the CLR/HOLD button while it is in the normal measuring mode will hold the value. Another short press to cancel the hold mode.

6) When the battery capacity button displays that it is nearly empty you should replace the battery so it doesn't influence the precision.

#### 7) Automatic power off

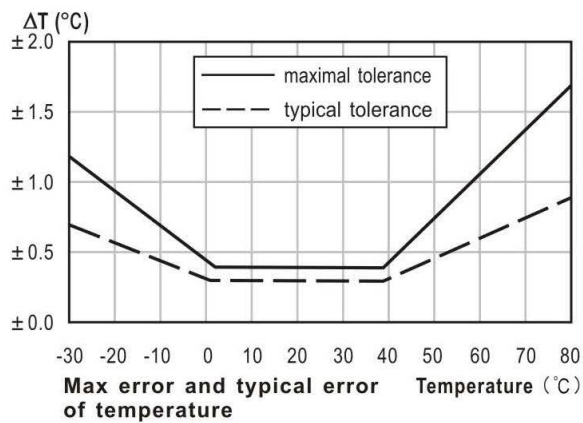
When there is no further operation on the keys of the meter, the device will automatically turn off. Next to this the meter can also be turned off by one short press on the ON/OFF button.

8) When you don't want the meter to automatically turn off you need to press and hold (approximately 5 seconds) the MAX/MIN button until "uN OFF" is shown on the display.



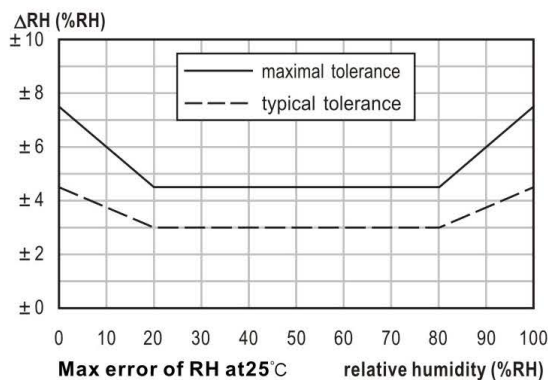
## 5 TEMPERATURE FIGURE

| Temperature       | Parameter                                                      |
|-------------------|----------------------------------------------------------------|
| Measurement range | -30 ~ 80°C                                                     |
| Precision         | ± 1°C (± 1.8°F)<br>Typical temperature: ± 0.3°C<br>(max ± 1°C) |
| Resolution        | 0.1°C / 0.1°F                                                  |



## 6 RELATIVE HUMIDITY TABLE

| Humidity          | Parameter                                                      |
|-------------------|----------------------------------------------------------------|
| Measurement range | 0 ~ 100%RH                                                     |
| Precision         | ± 3%RH (in 25, 20-80%RH)<br><± 5%RH (in 25, 0-20%RH~80-100%RH) |
| Resolution        | 0.1%RH                                                         |





## 7 TECHNICAL PARAMETER

| Humidity                     | Parameter                                                                                                                                                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement range            | Temperature: -30°C ~ 80°C<br>Humidity: 0% ~ 100%                                                                                                                                                                                                        |
| Precision                    | Temperature: $\pm 1^{\circ}\text{C}$ ( $\pm 1.8^{\circ}\text{F}$ )<br>Typical temperature: $\pm 0.3^{\circ}\text{C}$ (max $\pm 1^{\circ}\text{C}$ )<br>Humidity: $\pm 3\%\text{RH}$ (in 25, 20-80%RH)<br>$<\pm 5\%\text{RH}$ (in 25, 0-20%RH~80-100%RH) |
| Resolution                   | Temperature: $0.1^{\circ}\text{C}$ / $0.1^{\circ}\text{F}$<br>Humidity: $0.1\%\text{RH}$                                                                                                                                                                |
| Sampling time                | 1 time / second                                                                                                                                                                                                                                         |
| Operation temperature        | $-0^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ( $32^{\circ}\text{F}\sim 122^{\circ}\text{F}$ )<br>$\leq 80\%\text{RH}$ no condensation                                                                                                                    |
| Powered by                   | 9V 6F22 battery                                                                                                                                                                                                                                         |
| Suitable storage environment | $-30^{\circ}\text{C}\sim 80^{\circ}\text{C}$ ( $-22^{\circ}\text{F}\sim 140^{\circ}\text{F}$ )<br>$0\%\text{RH}\sim 90\%\text{RH}$                                                                                                                      |
| Static current               | $I < 10\mu\text{A}$ typical current: $0\text{mA}$                                                                                                                                                                                                       |
| Operating current            | $I < 8\text{mA}$ typical current: $6\text{mA}$                                                                                                                                                                                                          |
| Low battery alert            | $6.2\text{V} \pm 0.25\text{V}$                                                                                                                                                                                                                          |

Special declaration:

Our company reserves the right to modify the product, design and the instruction. We will not give further notice for any changes!



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