

Pro'sKit®

MT-4616

Temperature / Humidity / Dew point Meter



User's Manual

1st Edition, 2015

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Statements

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Safety statements


Caution

“”sign shows what will cause damage to the temperature and humidity meter.

Please be careful of the operation when using the tester, incorrect operation or operation steps maybe cause damage to the temperature and humidity meter or to the equipment.

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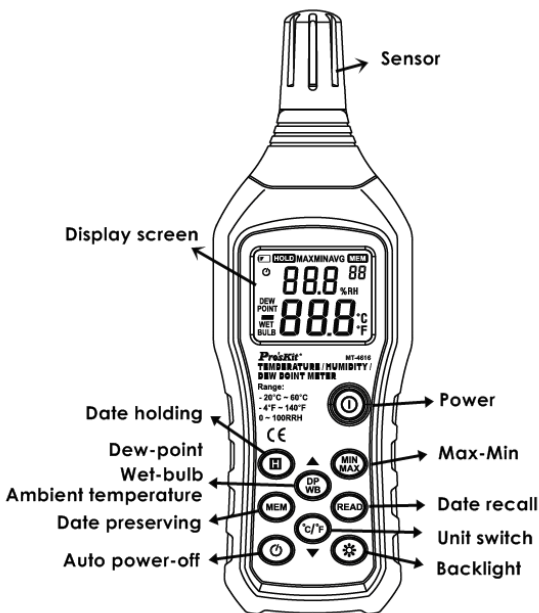
Warning

“”sign shows that there is danger of electric shock,serious injury or death .The case or operation may result in personal injury to the users. If these conditions are not met or you don't fully understand how to operate the temperature and humidity meter,

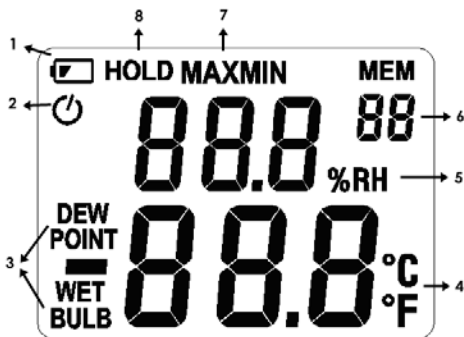
please don't continue any operation with warning sign indicating.

Brief Introduction

This is a battery powered meter for measuring relative humidity and temperature. It can display three types of temperatures around the sensor's area via several convenient procedures: Ambient temperature, Dew-point temperature and Wet bulb temperature.



Display Screen





NO.	explanation
1	Low battery
2	Automatic power-off mark
3	Display wet bulb temperature or dew-point temperature
4	Temperature measurement unit
5	Relative humidity measurement unit
6	MEM, RAM position number
7	Max-min
8	Hold function activated. The screen freezes the current reading




Operation

Notice



When moving the meter from one atmosphere with extreme temperature or humidity to another, you need to wait for it to stabilize.

Press  to start the meter and read the measurements displayed by °C or °F. Press  to switch.



Dew-point & Wet-bulb


When starting the meter, the ambient temperature appears on the screen. To obtain DP, press a first time  and press  for a second time, WB is switched. Press  a third time, to get the ambient temperature back. A corresponding signal will be shown on the screen indicating DP and WB.

Holding


Hold the button Press  to freeze the current reading, and stop the meter from displaying the measurements. When the HOLD function is active, the screen displays **HOLD**. To continue reading the measured value, press  again.






Max-min

Pressing , Max-min is set up, and max updates constantly, press  again, it is min.

The two stations can be switched. If turned off, you need to press  for two seconds; a sound shows that this function has been turned off. Max means that the peak of temperature and humidity, while min is the lowest reading.



Saving and transferring the measurements

This meter is able to save 99 groups reading for transferring. Press  to save the reading, and its location displays at the screen's upper right corner. After two seconds, the meter comes back to the normal state; If RAM is filled fully, the meter will cover the stored data from No.1 RAM and keep the reading.



When transferring the saved figure, press  to enter MEM check-up. At this time,  and  are used to change the page. To exit it, press  again. In the state of check-up, press  for five seconds and "00" is displayed at the screen's right upper corner, which means RAM is cleared.

Automatic power-off

To prolong the life-span of the battery, this meter


offers an automatic power-off function, and it shuts down after 30 minutes of no use. Just press  if setting it for longer measurement, and  disappears. Do it again, the automatic power-off is on.

The backlight

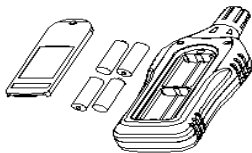
Press  to start the backlight, press  again to turn off the backlight. If starting without automatic power-off, it will close after 15 seconds.

Maintenance

Replace the batteries

The meter is charged with four 1.5(AAA type) batteries. When  appears, the batteries should be replaced as soon as possible. Follow the instructions:

1. Unscrew the top of the entrance.
2. Remove the batteries out.
3. Install four unused AAA batteries in accordance with polarity described on the bottom.
4. Replace the lid and fasten the screw.



Specification

Ambient temperature

Range: -20 to 60°C (-4 to 140°F)

Precision: $\pm 1.0^{\circ}\text{C}$ (0 to 45°C)/ $\pm 1.5^{\circ}\text{C}$ (-20 to 0°C, 45 to 60°C)

Resolution: 0.1°C/°F

Update rate: 400ms

Sensor's type: High-Precision digital sensor

RH

Range: 0 to 100%RH

Accuracy: $\pm 3.0\%$ RH(20% to 80%) / $\pm 4.0\%$ RH(0% to 20%, 80% to 100%)

Resolution:0.1%

Update rate: 400ms

Sensor's type: High-precision digital sensor

WB

Range: -20 to 60°C (-4 to 140°F)

Precision : $\pm 1^{\circ}\text{C}$ (0 to 45°C)/ $\pm 1.5^{\circ}\text{C}$ (-20 to 0°C, 45 to 60°C)

Resolution: 0.1°C/°F

Update rate: 400ms

DP

Range: -50 to 60°C (-58 to 140°F)

Precision : $\pm 1^{\circ}\text{C}$ (0 to 45°C)/ $\pm 1.5^{\circ}\text{C}$ (-50 to 0°C, 45 to 60°C)

Resolution: 0.1°C/°F

Update rate: 400ms

RAM: 99 data point

Power: 4 AAA batteries

Weight: 190g (batteries included)

Size:184mmx60mmx29mm

MT-4616 溫度.溼度.露點測試器 使用說明書

安全聲明

小心或注意

“小心”或“注意”標誌表示會對儀錶或設備造成損壞的狀況和操作。

它要求在執行此操作時必須小心，如果不正確執行此操作或不遵循此操作步驟，則可能導致儀錶或設備損壞。在不滿足這些條件或沒有完全理解的情況下，請勿繼續執行小心標誌所指示的任何操作。

警告

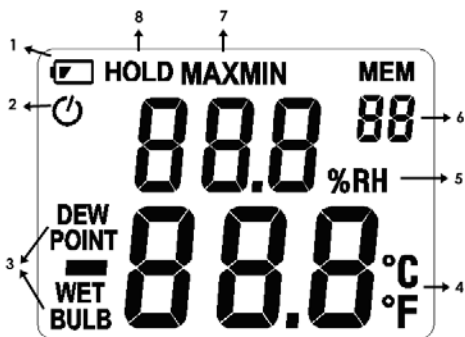
“警告”標誌表示會對用戶造成危險的狀況和操作。它要求在執行此操作時必須注意，如果不正確執此行操作或不遵守此操作步驟，則可能導致人身傷害或傷亡。在不滿足這些條件或沒有完全理解的情況下，請勿繼續執行警告標誌所指示的任何操作。使用本儀錶前，請仔細閱讀說明書並請注意有關安全警訊

簡介

MT-4616 是一款由電池供電、用於測量相對濕度和溫度的儀錶。通過數個操作方便的控制步驟，儀錶就可顯示其感測器周圍空氣的三種不同的溫度值：環境溫度、露點溫度和濕球溫度。



顯示幕





序號	含義
1	電池電量不足。
2	自動關機使能符號。
3	顯示濕球溫度或露點溫度。
4	溫度測量單位。
5	相對濕度測量單位。
6	顯示讀數取自記憶體，記憶體位置編號。
7	顯示最大讀數或最小讀數。
8	保持功能被啟用。顯示幕凍結當前讀數。




儀錶操作

注意



當把儀錶從一個溫度/濕度極限環境移動至另一個時，要等待一段時間讓儀錶穩定。

1. 按  啟動儀錶，然後開始讀取測量值。
2. 溫度讀數以攝氏度 (°C) 或華氏度 (°F) 顯示。
按  可切換單位 °C 與 °F。


露點溫度與濕球溫度



剛啟動儀錶時，儀錶顯示的是環境溫度。要顯示露點溫度 (DP)，按一下 。再按一次 ，可切換至濕球溫度 (WB)。再按一次  則儀錶返回到環境溫度。選擇露點溫度和濕球溫度時，顯示幕上會有對應的符號指示。

資料保持








按下  鍵可鎖住儀錶當前顯示的讀數。當 HOLD (保持) 功能被啟動時，顯示幕上顯示 **HOLD**。要繼續讀取測量值，再按一次  鍵。

最大最小值記錄



當按一下 ，最大最小值功能啟動，螢幕將不斷更新啟動後所測的最大值，若需查看啟動後不

斷更新的最小值，只需再按一下 ，同樣方式可切換回查看最大值；若想退出最大最小值功能，只需長按  兩秒，當聽到“嘀”聲後，儀錶就退出了此功能。此功能中最大值包括功能啟動後的溫度最大值和濕度最大值，最小值包括功能啟動後的溫度最小值和濕度最小值。

保存和調用測量值


儀錶最多可保存 99 組讀數值供以後查看。按一下  將保存當前數值到記憶體中，同時螢幕右上角將顯示所存位置，2 秒後儀錶將自動跳回正常測量狀態；若記憶體存滿，則儀錶將自動從 1 號記憶體位元覆蓋已存資料並存儲當前值。若要調用記憶體中所存的讀數，按  鍵進入記憶體讀數查看模式，此時可按  和  鍵上下翻頁，若要退出查看模式，只需再按一下  鍵。若要清空記憶體，請在查看模式下，長按  鍵 5 秒，螢幕右上角將有 00 編號顯示，說明記憶體已清空，再按  鍵退回正常測量模式。

自動關閉電源

為節省電池壽命，儀錶提供了自動關機功能，儀錶在 30 分鐘無操作活動後關閉電源。儀錶的自動關機功能默認開啟，若需關閉此功能，使得儀錶可以長時間測量，只需按一下  鍵，此時螢幕上自動關機  符號將消失，同上，再按一下，又可


開啟自動關機功能。

背光

按一下  鍵，將開啟背光燈，再按一下關閉背光燈。若開啟後未手動關閉，背光燈將在 15 秒後自動關閉。

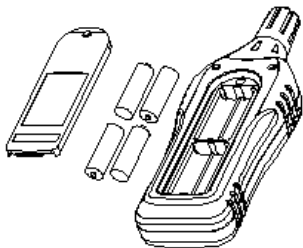
維護

更換電池

儀錶由四節 1.5V（AAA 型）電池供電。當顯示幕中出現  符號時，應儘快更換電池。

要更換電池：

1. 擰開電池蓋頂部的螺釘，然後將電蓋打開。
2. 取出電池倉內的四節 AAA 電池。
3. 依照電池倉底部描繪的極性，正確地安裝入四節新的 AAA 電池。
4. 將電池蓋重新裝回並擰緊螺釘將其固定。



規格

環境溫度

量程：-20 至 60°C (-4 至 140°F)

精度：±1.0°C (0 至 45°C)

±1.5°C (-20 至 0°C, 45 至 60°C)

解析度：0.1°C/°F

更新速度：400ms

感測器類型：高精度數字感測器

相對濕度

量程：0 至 100%RH

精度：±3.0% RH (20% 至 80%)

±4.0% RH (0% 至 20%, 80% 至 100%)

解析度：0.1%

更新速度：400ms

感測器類型：高精度數字感測器

濕球溫度

量程：-20 至 60°C (-4 至 140°F)

精度：±1.0°C (0 至 45°C)

±1.5°C (20 至 0°C, 45 至 60°C)

解析度：0.1°C/°F

更新速度：400ms

露點溫度

量程：-50 至 60°C (-58 至 140°F)

精度：±1.0°C (0 至 45°C)

±1.5°C (50 至 0°C, 45 至 60°C)

解析度：0.1°C/°F

更新速度：400ms

記憶體：99 個數據

電源：AAA 電池 X 4 個

尺寸：184mm×60mm×29mm

Pro'sKit[®]

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