Three-in-one Temperature Meter

Please read and understand following notice carefully, and correctly install and operate the product before using.

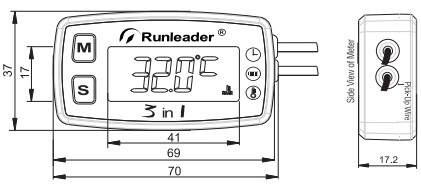
1-1 Notice

1.Please use the product accordance with the user guide strictly.
2.Please do not try to dismantle the main unit and its accessories.
3.This product with waterproof design can be used in the rain, but can not be used underwater.
4.Fierce vibration and strong impact may make the product failure.
5.Incorrect installation of battery cover at the back side will make the front panel of main unit fogged, condensed or watered.
6.Little error will be happened when measuring, within the normal range.
7.Do not short-circuited the power poles when installing this meter.
8.The product relates to a high voltage, you need professional installation, otherwise easily get an electric shock.
9.As this meter has back light, power consumption will be large. When the battery is low, please replace the battery as soon as possible. The battery is CR2032.

2-1 Product accessories list

Product x 1
User manual x 1
Zip ties x 1
Screw fittings x 1
Temperature sensor
PT100 x 1

3-1 Product dimension



Unit: mm

4-1 Battery Installation

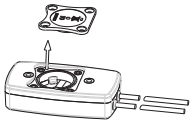
Note: Product has data storage function, will retain the original data after replacing the battery.

1 Unscrew the four screws in the cover



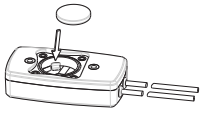
Use a screwdriver to counterclockwise twist, then unscrew the screws

2 Open the battery cover



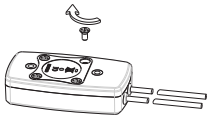
Remove the battery cover from the product

3 Put the battery inside



Smooth side should be put upward

4 Close battery cover, and tighten the screws

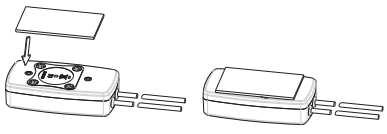


Use a screwdriver to clockwise twist, then tighten the screws

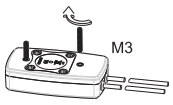
4-2 Install product

There are three ways,you can choose the one you needed.

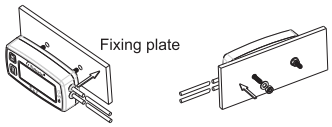
1 Double-sided adhesive tape



2 Screws

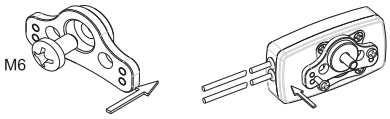


Fixing plate



Notice: The mounting plate is required matching holes, if you don't have, please drill corresponding holes in the mounting plate.

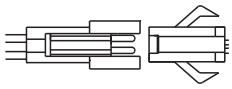
3 Aluminum bracket



Notice: This product does not include the aluminum frame, can purchase when you need.

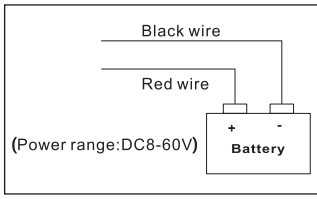
4-3 Accessories Installation

1. Install the temperature sensor



Plug in

2. Install the external power source

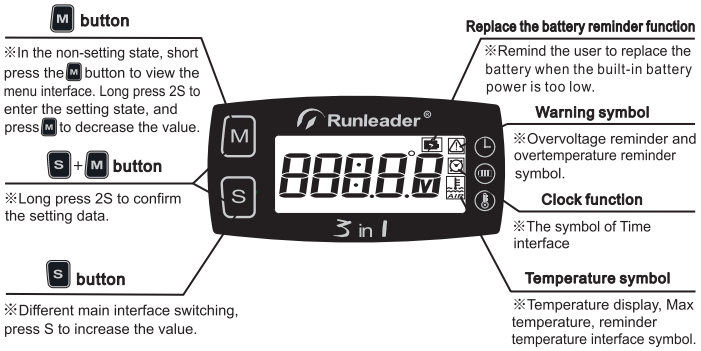


(Power range:DC8-60V)

3. Verify the accuracy of the product installation.

Short press the M button, temperature interface displays temperature, volt interface displays voltage, which means the installation is correct.

5-1 Area definition



6-1 Button operation explanation

Button	Short press	Long press
M button	Check the sub menu interface; decrease value when settings.	Enter into setting; fast decrease when setting.
S button	Switch main interface or return to main interface; increase value when settings.	Fast increase when setting.

※At setting mode, press the M + S button 2S to save and exit the settings.

6-2 Interface switch

※In the non-setting state, short press S



6-3 Interface operation

Temperature main interface----Real time display the current temperature



Short press M

View the overtemperature reminder value



Long press M 2S

Set the overtemperature reminder value



a)Setting range: -20-+300℃（-4℉-+572℉)

Short press M

View the Max temperature value



Long press M 2S

Reset the max temperature value



a)After reset, it will be back to initial value: -20℃(-4℉).
b)The recording method for max temperature value is that when the current measurements of the temperature are higher than the historical recorded value twice continuously, the historical recorded value will be updated.

Flashing alternately



Short press M

View the temperature unit



Long press M 2S

Set the temperature unit



Switching



※Long press M + S buttons for 2S to save and exit the setting.

Short press M

View the backlight time value



Long press M 2S

Set the backlight time value



a)Setting range: 0-100S, o means off, 100 means always on.
Default setting: 10S.

※Backlight valid only in the external power supply.

Voltage main interface---real time display the current voltage



Short press M

View the overvoltage reminder



Long press M 2S

Set the overvoltage reminder value



a)Setting range: 8-60V, the defalut setting is OFF.
b)When it is overvoltage, voltage value and reminder symbol will flash.

Short press M

Set the undervoltage reminder value

View the undervoltage reminder



Long press M 2S



a)Setting range: 8-60V, the default setting is OFF.
b)When it is undervoltage, voltage value and reminder symbol will flash.

Short press M

View the backlight time value



Long press M 2S

Set the backlight time value



a)Setting range:0-100S,o means off,100 means always on.
Default setting:10S.

Clock main interface---
Real time display the current time



Long press M 2S

Set the clock value



a)Short press M + S buttons to switch the setting of hour and minute interface.
b)Setting range:hour 0-23,minute0-59.Default setting:12:00.

Short press M

View the backlight time value



Long press M 2S

Set the backlight time value



a)Setting range:0-100S,o means off,100 means always on.
Default setting:10S.

7-1 Product Specifications

Sensor type	PT100
Temperature range	-20℃-+300℃（-4℉-+572℉)
Working voltage	DC8-60V
Housing material	ABS
Waterproof class	IP67
Display Mode	LCD
Visual window size	41x17mm
Weight	126g
Dimension	69x37x18mm
Battery type	CR2032 Replaceable
Battery capacity	210mAH
Refresh rate	External power supply 1S / internal power 8S
Temperature tolerance	±1℃
Voltage testing accuracy	<±0.5%

8-1 Troubleshooting

Problems	Possible Reason	Solution
Display nothing	1.Battery empty. 2.Battery installed incorrectly.	1.Replace a new battery. 2.Check the battery installation is correct.
LCD display ERR	1.Sensor is connected incorrectly. 2.Sensor is damaged.	1.Install the sensor again. 2.Change a new sensor.
Voltage measurement value is 0	1.Power wire is connected incorrectly. 2.Power wire is damaged.	1.Connect the red wire to power +,black wire to power -. 2.Change the wire.
LCD not clear or LCD color changed	1.Wrong angle of the product. 2.Direct sunlight for a long time. 3.Low battery.	1.Adjust the angle. 2.Put the product in the shade. 3.Replace the battery.