

# **Multifunctional meter**

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

# 1 Notice



1.Please use the product accordance with the user manual strictly.

2.Please do not try to disassemble the main unit and its accessories.

3. This meter can not be used underwater or in the heavy rain.

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. 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 CR2450.

Magic type x 1

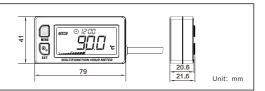
# 2 Product accessories list

Product x 1 User manualx 1

Temperature sensor x 1 Cable component x 1 Zip tiesx 6

CR 2450 Batterv x 1 Power wire component x 1

# 3 Dimension



# 4 Installation

#### 1. Battery installation

Notice: The meter has data storage function, previous data will be remembered automatically after replacing the battery, initial time value is 12:00.







### 2. Product installation

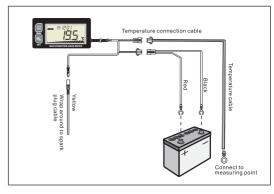
1 Stick the loop side of the magic tape on the back of the multifunctional meter.





Wrap one side of the yellow cable to engine's spark plug wires 5 circles or more, and fixed by zip ties.

# Notice: If the pulse/temperature cable was not be fixed firmly, it will affect the accuracy of the test data.



## 3. Verify the correctness of the product installation.

Start the engine, RPM speed data is displayed which shows the product is installed correctly.

# 5 Interface switch



# 6 Interface operation

#### 1. Temperature interface operations

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



# View overtemperature alert Long press

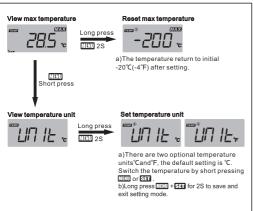
Set overtemperature alert value

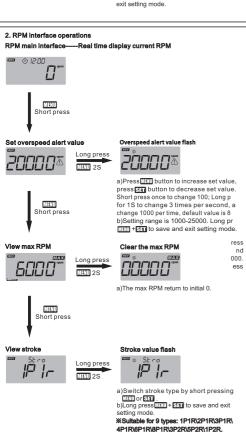




a)Press to increase set value, press SII to decrease the set value. b)Short press to change 1 per time; Long press for 1S to change 3 times per second, and change 10 per time.

c)Setting range: -20-°C-+300°C (-4°F-+572°F) Long press 111111 + S11 for 2S to save and exit setting mode.





#### 3. Clock setting

# Any main interface © 12:00 Long p

Long press

# Clock value flash

© 12:00

a)Press [IIII] decrease set value, press [III] to increase set value. Short press once to change 1; Long press for 1S to change 3 per second, and change 5 per time. b)Switch the hour setting interface and minute setting interface by short pressing [IIII] + [III] Prefault is 12:00.

Notice: After connected the meter to external power, backlight will display as follows. When engine is working, backlight will be on automatically; when engine stops working for 10S, backlight will be off.

# 7 Relationship between stroke and cylinder in setting RPM mode

RPM Type	Ignition Method	Stroke and Cylinder	RPM Range
1P1R	1 spark per revolution	4 stroke 2 cylinder	025000
		2 stroke 1 cylinder	025000
2P1R	2 spark per revolution	4 stroke 4 cylinder	015000
	' '	2 stroke 2 cylinder	015000
3P1R	3 spark per revolution	4 stroke 6 cylinder	010000
		2 stroke 3 cylinder	010000
4P1R	4 spark per revolution	4 stroke 8 cylinder	07500
6P1R	6 spark per revolution	4 stroke 12 cylinder	05000
8P1R	8 spark per revolution	4 stroke 16 cylinder	03750
3P2R	3 spark 2 revolution	4 stroke 3 cylinder 020000	
5P2R	5 spark 2 revolution	4 stroke 5 cylinder	012000
1P2R	1 spark 2 revolution	4 stroke 1 cylinder	025000

Notice: A part of 4 stroke 1 cylinder engine is special. When 2P1R's data is incorrectly, please try to set 1P1R.

#### Specifications & Parameter

Product name	Multifunctional meter	
Temperature measuring range	-20°C-+300°C (-4°F-+572°F)	
Temperature measuring accuracy	±1%	
Total hour range	0-9999H	
Housing material	ABS	
Waterproof level	IP65	
Display mode	LCD	
Display windows size(visible)	52×24mm	
Product weight	216g	
Dimension	79×41×21.6mm	
Battery type	CR2450 Replaceable	
External power voltage	12/24V	

# 9 Trouble shooting

Problems	Possible reasons	Solutions
Display nothing	Battery empty.     Battery installed backwards.	Replace the battery.     Check the battery installation is correct.
Time no change or not accurate after 6 minutes or RPM is not accurate	1.Cable loose or wrapped less cycles.     2.Cable may damaged.     3.Stroke type setting is incorrect.	1.Tighten or wrap more cycles. 2.Repair or change the cable. 3.Set the correct stroke.
Display no change	The meter is crash.	1.Re-install the battery.
LCD display ERR	Sensor is not connected.     Sensor is damaged.     Sensor type setting is incorrect.	1.Re-install the sensor. 2.Replace a new sensor. 3.Reset sensor type.
Unclear display on LCD or color changed	Wrong angle of the product.     Low battery.	1.Adjust the angle.     2.Replace the battery.

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