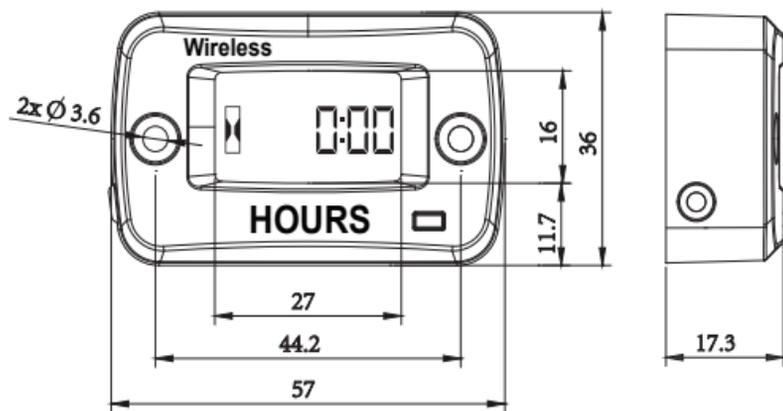
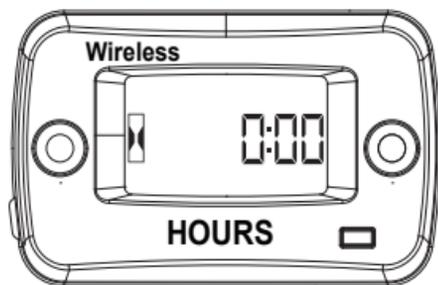
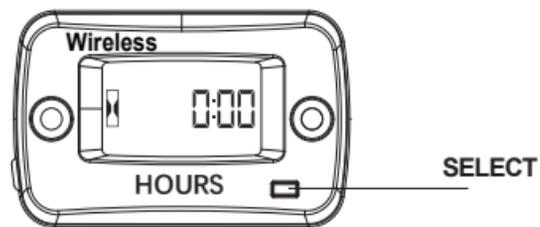


OPERATING INSTRUCTION

Vibration Activated Hour Meter



Unit:mm



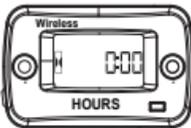
Product Accessories List	-----	①
Product Installation	-----	①
Product Operation	-----	②
Specifications	-----	⑤
Dimension	-----	⑥

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



1. Please make sure to refer to the installation instructions in the Operating Instructions to avoid damage caused by installation errors
2. The product included the battery inside and can not be replaced, do not disassemble or replace the battery by yourself.
3. Please install the product in a proper location to avoid the possibility of this product being hit and prevent damage to the product.
4. The product has certain waterproof function, but cannot be used in deep water or soaked in rain for a long time
5. Please use the product at the specified temperature, high temperature environment may cause damage to the product.

Product Accessories List

1 product*1 	2 double-sided tape*1 	3 paper card*1 
4 user manual*1 	5 screws*2 	

Product Installation

This product can be directly installed with double-sided tape or screwed, the installation method is as follows:

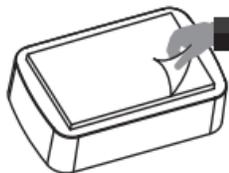
1. Double-sided tape installation:



a) Clean properly the surfaces. Note: Make sure the surface is flat and the oil is clean enough.



b) Remove protection from double-sided tape. Note: when removing the double-sided tape protector, make sure that the double-sided tape is not exposed to water or oil on both sides.



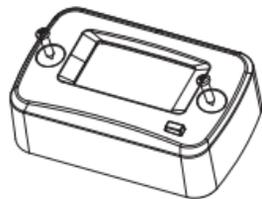
c) Stick the double-sided tape on the back of the product. Note: before pasting the double-sided tape, please make sure the back of the product is clean and tidy, without moisture or grease.



d) Fix the hour meter in a proper position. Note: before pasting the double-sided tape, please confirm that the pasted place is clean and tidy, no moisture or oil.

Proper position requirement: no moisture, no grease, is a plane, no violent vibration, and the temperature not exceed 125F.

2. Screw installation:

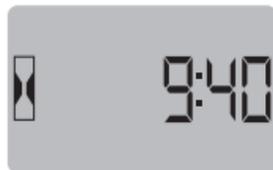


- a) The design allows for surface mount.
- b) Install with screws as the below diagram

Note: proper position requirement: no moisture, no grease, is a plane, no violent vibration, and the temperature not exceed 125F. Do not drill into gas tank, engine crankcase or oil reservoir frames.

Product Operation

1.Hours----Total hours of operation.



a) When equipment vibrates, the meter counts running hours

b) Total hours can not reset

c) The total hours max value is 999999; When the total hours range is 0:00-9999H59Min, the timing accuracy is 1Min; When the total hours range is 10000.0-99999.9H, the timing accuracy is 0.1H; When the total hours range is 100000-999999H, the timing accuracy is 1H.

d) When the total hours exceeds 999999 hours, the timing will restart from 0.

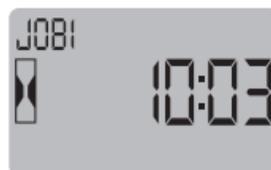
2.JOB1—Hours of operation since the timer was reset



a) To view "JOB1" time: press the button once at "Hours" interface.

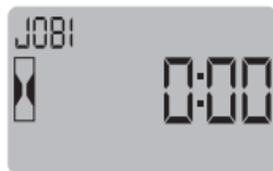


Press the button once





Press and hold the button for 5S



b) To reset “JOB1” time: press the button until display shows “JOB1” icon, release the button, press and hold the button until display shows “0000:00”, then release the button, the “JOB1” display will reset to “0:00”, and you will begin to record the next job interval.

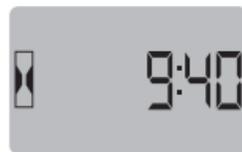
3. JOB2—Hours of operation since the timer was reset

“JOB2” is the same operation as the “JOB1”.

4. SVC1—Maintenance interval time. Note: timing is countdown.

To view “SVC 1” time: press the button 3 times at “Hours” interface.

To program “SVC 1” timer:



Press the button 3 times



a) Press the button 3 times until display shows “SVC 1” icon and maintenance interval time.

b) Press and hold the button until display shows “SVC 1” icon and maintenance interval time starts flashing

c) Press the button until you get desired hours, release the button, the LCD will flash for 5 seconds and return to “Hours” (Total hours).

When the maintenance interval time is reached, the icon “SVC” will flashing continuously on the display screen, the reminder time is 1 minute, press the button to close the reminder, the next maintenance interval time starts timing

5. SVC2—Maintenance interval time. Note: timing is countdown.

“SVC2” is the same operation as the “SVC1”

6. Set Vibration Sensitivity Level



Press the button 5 times



a) Press the button 5 times until display shows “SEN-1” icon

b) Press and hold the button until display shows “SEN-1” icon starts flashing

c) Press the button until you get desired number, release the button, the LCD will flash for 5 seconds and return to “Hours” (total hours).

Note: for the selection of sensitivity settings, please refer to the table below

SEN	Sensitivity	Frequency detection range	Applicable equipment
SEN-1	Low	>32HZ	Suitable for equipment with low vibration
SEN-2	Medium	>18HZ	Suitable for equipment with medium vibration
SEN-3	High	>4HZ	Suitable for equipment with high vibration

Note: the strength of vibration is a reference property, some equipment vibration may be low, but the SEN-3 high vibration detection will also get good results.

7. Hour meter lock



a) Press the button until display show “Hours”

b) Press and hold the button at “Hours” interface until display shows “LOC” icon , release the button, the LCD display will shut down.

This will prevent unit from accumulating time while in transit or from unwanted vibrations

When the hour meter is in lock mode, the historical data and setting will be retained and will not be cleared.

When the hour meter is in lock mode, if the equipment vibrates, the hour meter will not be activated, and the hour meter does not record the working time of the equipment at this time. Press the button can unlock the hour meter, and the hour meter will resume to work after unlock.

8. Other

1. About product battery life

To extend the life of your product, you can apply it as follows:

- Avoid product are always in a very humid environment—there is a risk of moisture intruding inside the product, causing the product to consume more electricity;
- Avoid product that are always in a high temperature environment (exceed 125F) — high temperature environment has the risk of increasing the discharge rate of the internal battery CR2450.
- Minimize the frequency of button operations—continuous button operation, function switching, the power consumption will increase

2. About product battery life

There are several cases about the service life of the battery (this is the theoretical calculation, the actual battery life is related to the applicable conditions):

- If you use 8 hours per day , do not turn on the lock function when not in use, the battery life is about 6 years
- If you use 8 hours per day, turn on the lock function when not in use, the battery life is about 9 years
- If you use 24 hours per day, the battery life is about 4 years

Specifications

Timing range	0-999999H
Timing accuracy	1MIN/0.1H/1H
SVC1	0-1000H
SVC2	0-1000H
Display mode	LCD
Display window size(visible)	27x16mm
Product size	57x36x17.3mm
Battery type	CR2450 540mAh
Waterproof level	IP68