

LCD Vibration Activated Hour Meter With Service Alerts

Hour Meter, T56E Series

ENM's series T56E LCD Vibration Activated Hour Meter. The hour meter features 5-digits with an hour glass icon as a running indicator. Unit has three separate timers, two can be reset. There are also two vibration sensitivity settings which the customer can select to suit their application.

This meter can be installed anywhere on equipment with no special wiring connection or power source to operate. There is a double sided tape on the back for mounting on surface along with two side holes for extra wire mounting for more security. The internal battery supplies all the necessary power for the gauge to operate for years of service.

This compact tamper proof meter is 100% water sealed and rated for IP68.



T56E1 - Standard unit with ENM logo

Features

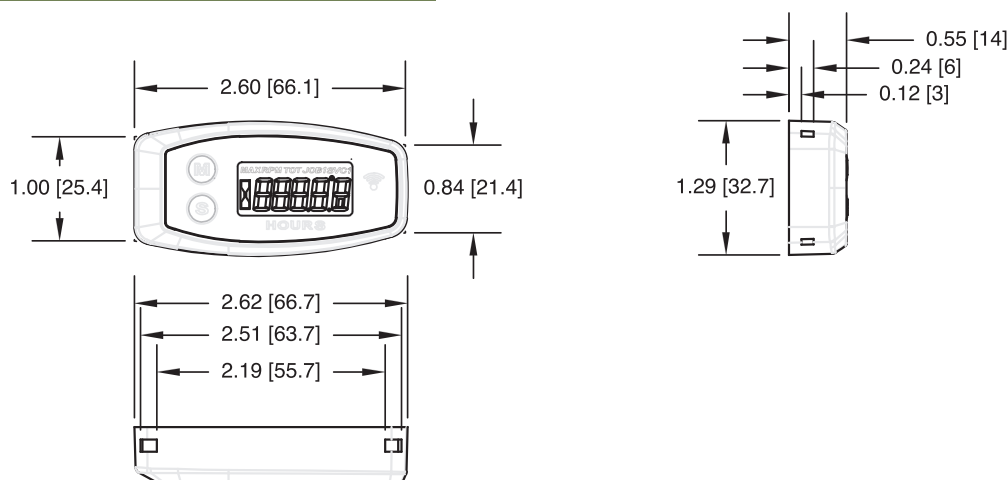
- No external power required
- 3 timers (Total hours, Job 1 and Job 2)
- Resettable job timers
- 2 vibration sensitivity settings (low and high)
- Waterproof, IP68
- Power saving mode to conserve battery life with programmable sleep time
- Lock function to prevent time usage during transport

Specifications

LCD:	0.51X1.10 (13X28mm)
Total/Job Hour Range:	99999H
Timing Accuracy:	0.1H
Waterproof:	IP68
Operating Temperature:	-4°F to 158°F (-20°C to 70°C)
Humidity:	<+90%RH
Battery:	Non-replaceable
Mounting:	Double sided tape with 2 side holes for wire mounting (wire not included) See reverse side for detail

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T56E Series



Instructions

Mounting unit:

Install unit onto equipment using the provided double sided tape. Make sure the unit is securely fastened onto the surface or else the unit might not be able to pick up the vibrations. There are two side holes for extra wire mounting if needed.

If display is showing "Loc" this mean the unit is in lock mode. Press and hold (M) and (S) for ~5 seconds

Programming unit:

- Set vibration sensitivity level** - Press (M) three times until *SEN-L* or *SEN-H* appears. Hold down (S), approximately 2-3 seconds, and "L" should start flashing. Now either press (M) or (S) to change the level. Press and hold (M) and (S) button to save and exit out of the sensitivity mode. *SEN-L* is the default level which means low sensitivity while *SEN-H* is for high sensitivity.
- Sleep mode settings** - At the main display, press (M) until *Sc-11* appears. Hold down (S) for two seconds to enter the mode. The default lock timer is set at 11 seconds of no activity.
 - Maximum timer is 60 seconds and the minimum is 1. Setting number to 0 will disable lock feature which will keep LCD on at all time, this will affect battery life.
 - Press (M) to decrease by 1 second, press (S) to increase by 1 second.
 - Long press (M) to decrease number by 5 (twice per second), long press (S) to increase number by 5 (twice per second).
 - Setting to *Sc-Of* will disable sleep mode.
 - After setting parameter hold down (M) and (S) for ~2-3 seconds to save setting and exit out of mode.
- Reset JOB timers**
 - Press (S) button to select either *JOB* or *JOB1*
 - Hold down (S) button for ~2-3 seconds. Number should reset back to 0.0.
- Lock Mode** - Press and hold (M) and (S) for ~5 seconds to lock unit, screen should show *Loc*. This will prevent unit from accumulating time while in transit or from unwanted vibrations. Press and hold (M) and (S) for ~3-5 seconds again to unlock the unit.

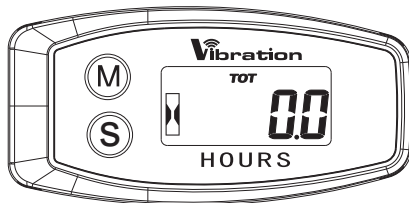
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LIMITED WARRANTY

ENM Company hour meters are warranted to the consumer to be free from defects in material and workmanship for a period of 1 year. All ENM products which fall within the warranty period due to defects in material or workmanship will be repaired or replaced, at ENM's option, without charge to the consumer when returned with proof of purchase to any authorized ENM dealer in the United States, transportation charges prepaid, provided there is no evidence of improper installation, tampering, or other abuse. All implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, shall be limited in duration to the express warranty period specified above. ENM disclaims any liability for consequential damages due to breach of any written or implied warranty on its products. Datasheet information subject to change.

OPERATING INSTRUCTION

Vibration Activated Hour Meter







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

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
			

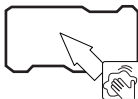
Product Installation

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

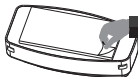
1. Double-sided tape installation:



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.

Product Operation

1. TOT ---- 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 99999; When the total hours range is 0.0-9999.9H, the timing accuracy is 0.1H; When the total hours range is 10000-99999H, the timing accuracy is 1H.

d) When the total hours exceeds 99999 hours, the timing will restart from 0.



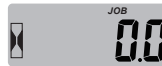
2. JOB ---- Hours of operation since the timer was reset

a) To view "JOB" time: press the "M" button once at "TOT" interface.



Press the button once

b) To reset "JOB" time: press the "M" button until display shows "JOB" icon, release the "M" button, press and hold the "S" button until display shows "0000.0", then release the "S" button, the "JOB" display will reset to "0.0", and you will begin to record the next job interval.



Press and hold the button for 5S



3. JOB1 ---- Hours of operation since the timer was reset

a) To view "JOB1" time: press the "M" button twice at "TOT" interface.



Press the button twice

b) "JOB1" is the same operation for reset as the "JOB".

4. SVC ---- Maintenance interval time. Note: timing is countdown.

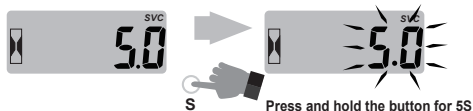
a) When the maintenance interval time is reached, and the LCD display will flashing, press the "M" button or "S" button to clear the status, the next maintenance interval time starts timing

b) Programming SVC time:

1. Press the "M" button 3 times until display shows "SVC" icon and maintenance interval time.



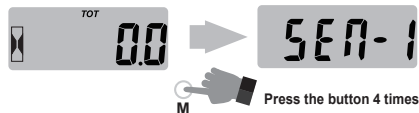
2. Press and hold the "S" button until display shows "SVC" icon and maintenance interval time starts flashing



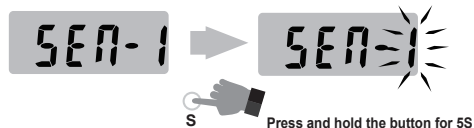
3. Press the "M" button or "S" button until you get desired hours, release the button, the LCD will flash for 5 seconds and return to "TOT" (Total hours).

5. Set Vibration Sensitivity Level

a) Press the "M" button 4 times until display shows "SEN-1" icon



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

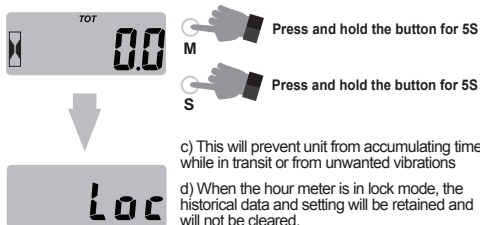


c) Press the "M" button or "S" button until you get desired number, release the button, the LCD will flash for 5 seconds and return to "TOT" (Total hours)

SEN	Sensitivity	Frequency detection range	Applicable equipment
SEN-1	Low	$\geq 32\text{HZ}$	Suitable for equipment with low vibration
SEN-2	Medium	$\geq 18\text{HZ}$	Suitable for equipment with medium vibration
SEN-3	High	$\geq 4\text{HZ}$	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			

6. Hour meter lock

- Press the "M" button until display show "TOT" icon
- Press and hold the "M" button and the "S" button simultaneously until display shows "LOC" icon , release the button, the LCD display will shut down



7. Other

a) About product 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 CR2430.
- Minimize the frequency of button operations—continuous button operation, function switching, the power consumption will increase.

b) About product battery life

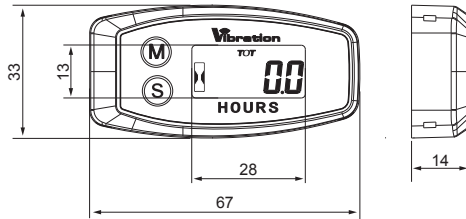
There are several cases about the service life of the battery (this is the theoretical calculation, the actual battery life is related to the applicable conditions):

- If you use 8 hours per day , do not turn off the display when not in use, the battery life is about 6 years
- If you use 8 hours per day , turn off the display 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

Product Specifications

TOT/JOB/JOB1 Timing range	0-99999H
Timing accuracy	0.1H/1H
SVC TIMER setting range	0-1000H&OFF
Display mode	LCD
Display window size(visible)	28x13mm
Product size	67x33x14mm
Battery type	CR2430 270mAh
Waterproof level	IP67

Product Dimension



Unit:mm