Counting Instruments

Technical Data **707**

Self Powered Engine Digital Tach/Maintenance

Hour Meter, PT18 Series

ENM is proud to present the new series PT18 self-powered Digital Tach/Maintenance/Hour meter with replaceable battery. The PT18 keeps track of true engine RPM and running time for all types of gasoline engines.

The unit is powered by an internal lithium battery. No external power connections are required. The operation of the Tach/Hour meter is triggered by ~5 ft. shielded and external lead, wrapped around the spark plug wire of the engine. Since the unit is triggered by the spark of the engine,the hours and the RPM display actual operation. This is useful for maintenance and warranty applications for any type of engine-powered machinery.

When the engine is on, the display will read the RPM of the engine. When the engine is off, the display will switch to run time and remains visible.

PT18A0

Features

- **8 programmable firing patterns**
- **Programmable maintenance timer**
- **RPM alert**
- **Record max RPM of engine**
- **No external power required**
- **Replaceable battery (CR2032)**
- **Large 7 segments LCD**
- **Splash proof (IP68)**
- **Backlighting**
- **Resettable for current job time (Total time not resettable)**
- **Battery level indicator**

Specifications

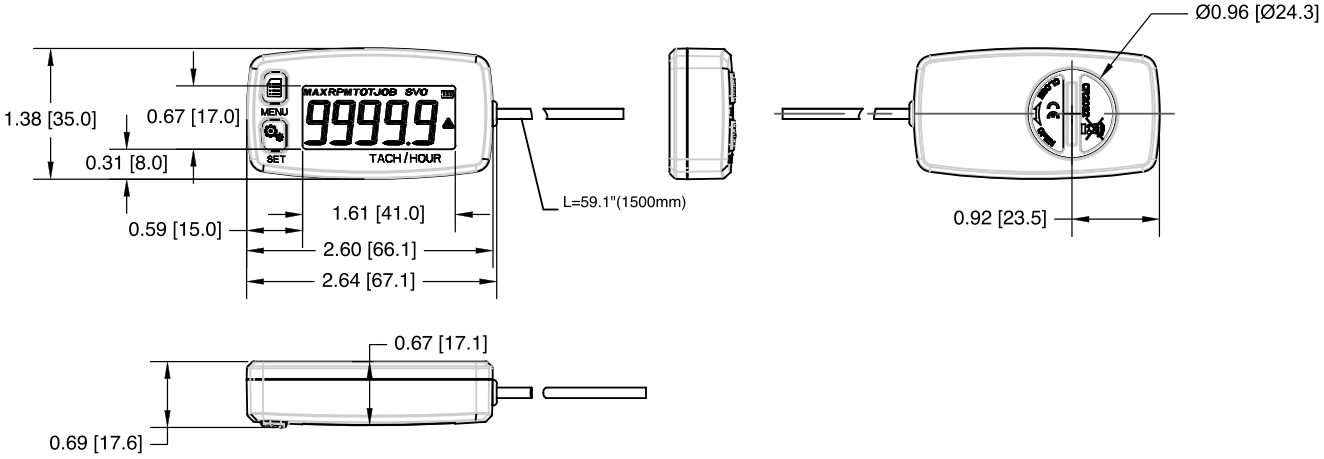
Capacity:	Hour meter - 9999.9 RPM - Max 20000
Hour Accuracy:	0.1
RPM Accuracy:	10RPM
Refresh Rate:	0.5s or 1s (Programmable)
Battery Life:	~6 years
Operating Temperature:	Standard -10°C to +60°C
Splash-proof:	IP68

Counting Instruments

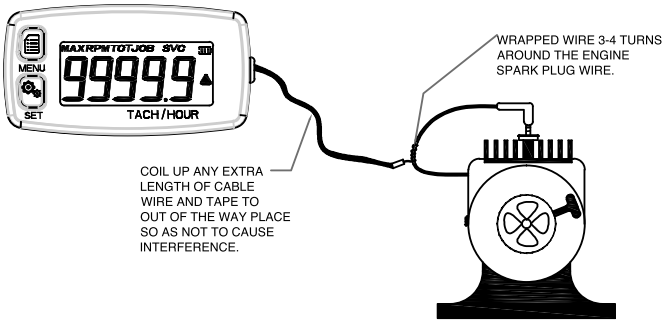
ENM Company
5617 Northwest Highway, Chicago, IL 60646-6135
(773) 775-8400 • Fax: (773) 775-5968
Toll Free (888) 372-0465 • e-mail: customerservice@enmco.com
web site: www.enmco.com

PT18 Series

Series PT18 Dimensional Data



Engine Type	Setting Mode	
4 stroke 2 cylinder; 2 stroke 1 cylinder	1P1R	1 spark per revolution
4 stroke 1 cylinder	1P2R	1 spark per 2 revolution
4 stroke 4 cylinder; 2 stroke 2 cylinder	2P1R	2 spark per revolution
4 stroke 6 cylinder; 2 stroke 3 cylinder	3P1R	3 spark per revolution
4 stroke 8 cylinder	4P1R	4 spark per revolution
4 stroke 12 cylinder	6P1R	6 spark per revolution
4 stroke 3 cylinder	3P2R	3 spark per 2 revolution
4 stroke 5 cylinder	5P2R	5 spark per 2 revolution



LIMITED WARRANTY

ENM Company resettable electromechanical counters 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.

Counting Instruments

ENM Company
5617 Northwest Highway, Chicago, IL 60646-6135
(773) 775-8400 • Fax: (773) 775-5968 • Toll Free (888) 372-0465
e-mail: customerservice@enmco.com
ISO 9001:2008 web site: www.enmco.com

TS206 - PT18

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

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 is designed with waterproof. It can be used in the rain, but cannot 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. As this meter has back light,power consumption will be large. When the battery is low, please replace the battery as soon as possible. This product's battery is CR2032.

Product usage

1. stroke setting

1.Press MENU six times at TOT no back light interface to enter into stroke setting interface. Default display of stroke interface is "1P1R".

2.Long press MENU at stroke interface until default stroke flashes to enter into stroke setting mode. Short press SET to choose.

3.Mode can be set:

1P1R=1 spark per revolution

2P1R=2 spark per revolution

3P1R=3 spark per revolution

4P1R=4 spark per revolution

6P1R=6 spark per revolution

3P2R=3 spark 2 revolution

5P2R=5 spark 2 revolution

1P2R=1 spark 2 revolution

4.Relationship between stroke and cylinder at setting stroke mode

Engine Type	Setting mode
4 stroke2cylinder; 2 stroke 1 cylinder	1P1R
4 stroke1cylinder	1P2R
4 stroke 4 cylinder; 2 stroke 2 cylinder	2P1R
4 stroke 6 cylinder; 2 stroke3 cylinder	3P1R
4 stroke8cylinder	4P1R
4 stroke12cylinder	6P1R
4 stroke3cylinder	3P2R
4 stroke 5 cylinder	5P2R
Notice: A part of 4 stroke1cylinder engine is special. When 1P2R's data is incorrect, please try to set 1P1R.	

2. Refresh rate setting

1. Press MENU seven times at TOT no back light interface to enter into refresh rate interface. The default refresh rate is "0.5".
2. Long press MENU at refresh rate interface until default refresh rate flashes to enter into setting mode. Short press SET to choose.
3. Refresh rate can be set:1.0 (refresh data every 1S)
0.5 (refresh data every 0.5 S)

3. RPM display

1. The RPM displays on the meter is engine's current RPM.
2. When engine shut down,LCD enter into TOT interface from RPM interface automatically. It displays total working time.

4. MAX RPM

1. Press MENU five times at TOT no back light interface to enter into view MAX RPM interface. The MAX RPM displays on the meter is Max RPM of current engine working.
2. Start engine again, MAX RPM of this time will replace last time.

5. RPM alert setting

1. Press MENU four times at TOT no back light interface to enter into RPM alert setting interface.The default data of RPM alert is 8500.
2. Long press MENU at RPM alert setting interface until default data flashes to enter into RPM alert setting mode. Short press SET to plus RPM alert value.Short press MENU to minus RPM alert value.
3.When actual RPM large than set RPM alert value,RPM alert icon will flash together with actual RPM. Flash way: Flash 5 times every 0.5S then stop 3S circularly.

6.total hours TOT Display 

When engine shut down, LCD interface will be TOT interface, displays total working hours..

7.Back light display way and timee

Press MENU or SET button once, back light will light. After 2 second, it will be out automatically.

8.Job Timer Display 

1. Press MENU twice at TOT no back light interface, the LCD will display JOB time.
2. Long press MENU at JOB interface, JOB time will clear.

9.SVC service time display and setting way. 

1.Press MENU third times at TOT no back light interface, the LCD will display SVC. The working way of SVC is countdown.

2. Long press MENU at SVC interface, to enter into SVC time setting mode. At this time, the screen will flash, short press MENU to minus time,short press SET to plus time.

3.SVC default time is 20 H. Setting range is 0–200 H. After setting, the screen will automatically return to TOT interface. It means that SVC time set successfully. When set SVC time reached, screen will flash to alert.

4.When SVC is flashing, press SET or MENU to close the alert.

5.When SVC alert closed,the meter will enter into the next alert cycle automatically. The time will be the same as last setting.

6.If SVC time is set to 0H, that mean SVC function closed.

10.Low power display

1. voltage of each bar as follows:

2.When the battery is empty, it will flash to remind of changing battery. Former data will be remembered after replacing the battery.

11.When engine stop working and operate nothing in 10 seconds at any interface, LCD will be automatically saved and return to TOT interface.

1. Operation map