

## Instruction Manual

### PULSE ENGINE HOURMETER PET-3000DXR



This product may be changed without prior notice

#### WARRANTY

##### OPPAMA'S RESPONSIBILITY

Oppama warrants that this device is produced under strict quality control and has passed the quality inspection.

Only under normal use and maintenance from date of purchase.

Oppama Industry agrees to repair or replace any defective product for free by Oppama's discretion at the dealer where you purchased it within one year period.

This limited warranty is extended to the original purchaser only, and it is not transferable to following owners.

Date of Purchase: \_\_\_\_\_

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

Retailer: \_\_\_\_\_

IMPORTANT: Please be sure to complete this WARRANTY card at the time of purchase and keep it. The WARRANTY card cannot be reissued under any circumstances.

THIS WARRANTY IS PROVIDED BY  
**OPPAMA INDUSTRY CO., LTD.**  
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#### ●FUNCTION

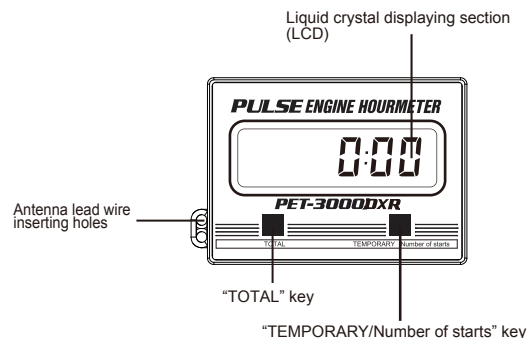
1.The PET-3000DXR Pulse Engine Hourmeter is an hour meter that displays cumulative time by the hour and the minute in two ways, TEMPORARY and TOTAL when it is activated by the electric pulses produced at the time of the ignition of gasoline engines. By attaching to specific engine or engine devices, you can measure the actual driving time.

2.Example of use:

- To keep usage record of engine daily, weekly, monthly or longer span.
- To schedule regular inspection and regular maintenance of engine or engine device.
- To estimate rental/lease fee based on its actual driving time.

※It is possible that the Hourmeter might be a few minutes fast at the time of shipment.

#### ●NAME OF PARTS



#### ●SPECIFICATIONS

Applicable Engines	All gasoline engines ※
Cumulative Time Display	<p>TEMPORARY:</p> <p>0:00 → 999:59 hr. min.</p> <p>OIL EXCHANGE PERIOD DISPLAY</p> <p>95:00 ~ 99:59 95:00 blink</p> <p>100:00 ~ 104:59 OIL → 100:00 Alternately lighting</p> <p>105:00 ~ 999:59 OIL → 105:00 Alternately lighting(fast)</p> <p>TOTAL:</p> <p>0:00 → 9999:59 hr. min.</p> <p>Number of starts:</p> <p>0 → 999999 times</p>
Battery Life	Approx. 20,000 hrs
Ambient Temperature	-20°C ~ +60°C
Dimensions(L × W × H)	44 × 61 × 12 mm
Weight	31 g
Accessories	Antenna lead wire : 1 set Velcro tape : 1 pack Operation manual : 1 copy

※This unit cannot be used for diesel engines and direct ignition engine.

#### ●HOW TO USE

- 1.Attach the antenna lead to the unit as illustrated.
- 2.Connect by winding the other end of the antenna lead around the ignition cable, and securing the winds with adhesive tape (for permanent use).
- 3.Press TOTAL key to set the unit in the long-term cumulative time count mode, where a six-digit such as 0000:00 will appear on the LCD.
- 4.Start the engine, and press TEMPORARY/Number of starts key to set the unit in the short-term cumulative time count mode, where a three-digit reading such as 0:00 will appear on the LCD, with the dots (:) blinking to indicate that the unit is being activated (i.e. in operation).
- 5.The unit will automatically turn off in one minute after the engine is stopped (or the antenna lead is removed from the active ignition cable). Where permanently connected with the ignition cable, the unit will automatically turn on and off as the engine is started and off, respectively.
- 6.To switch over from the TOTAL cumulative time reading to the current TEMPORARY cumulative reading, press the TEMPORARY/Number of starts key.
- 7.To switch over from the TEMPORARY cumulative time reading to the current TOTAL cumulative reading, press the TOTAL key.
- 8.To reset the TEMPORARY cumulative time, first display the current TEMPORARY cumulative time reading onto the LCD, then press both TOTAL and TEMPORARY/Number of starts keys simultaneously.

(NOTE: TEMPORARY cumulative time count goes from 0:00 up to 999:59, where it automatically reset to start the same cycle, unless manually cleared.) The TOTAL cumulative time count goes up from 0000:00 up to 9999:59, where it automatically reset to start the same cycle. The TOTAL cumulative time stored cannot be manually cleared.

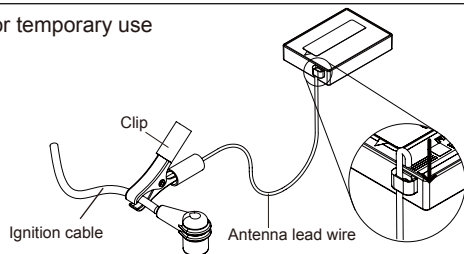
9. This unit has the function to inform the oil exchange period.
- 10.This unit has the function that displays the number of starts(Counter).

11.To switch over from the TEMPORARY cumulative time reading to the current Number of starts(Counter) cumulative reading, press the TEMPORARY/Number of starts key.

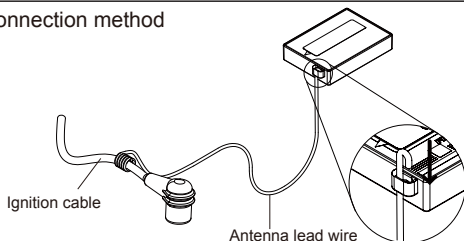
12.To reset the Number of starts(Counter) cumulative time, first display the current Number of starts(Counter) cumulative time reading onto the LCD, then press both TOTAL and TEMPORARY/Number of starts keys simultaneously.

(NOTE: Number of starts(Counter) cumulative time count goes from 0 up to 999999, where it automatically reset to start the same cycle, unless manually cleared.)

#### For temporary use



#### Connection method



#### CAUTION

- 1.Do not allow the unit to touch any active high tension ignition cable to prevent possible damage to the unit.
2. Keep the antenna lead from the metal to avoid the malfunction.
3. It is proof against rain and splash but not for use underwater. When it gets wet, wipe it promptly with dried cloth.
- 4.Keep this unit away from strong physical shocks.
- 5.This unit cannot be disassembled.
6. If there is any doubt that the Hourmeter broke down, first, operate the device following the instruction manual. If it cannot be fixed, please contact the dealer where you purchased the unit or Oppama Industry Co., Ltd. We are not responsible for any damage caused by the unreasonable repair or disassembly of device by yourself or third party.
7. Use plug with resistor. By using plug without resistor, the Hourmeter will be reset with strong noise of ignition.

#### MEMO