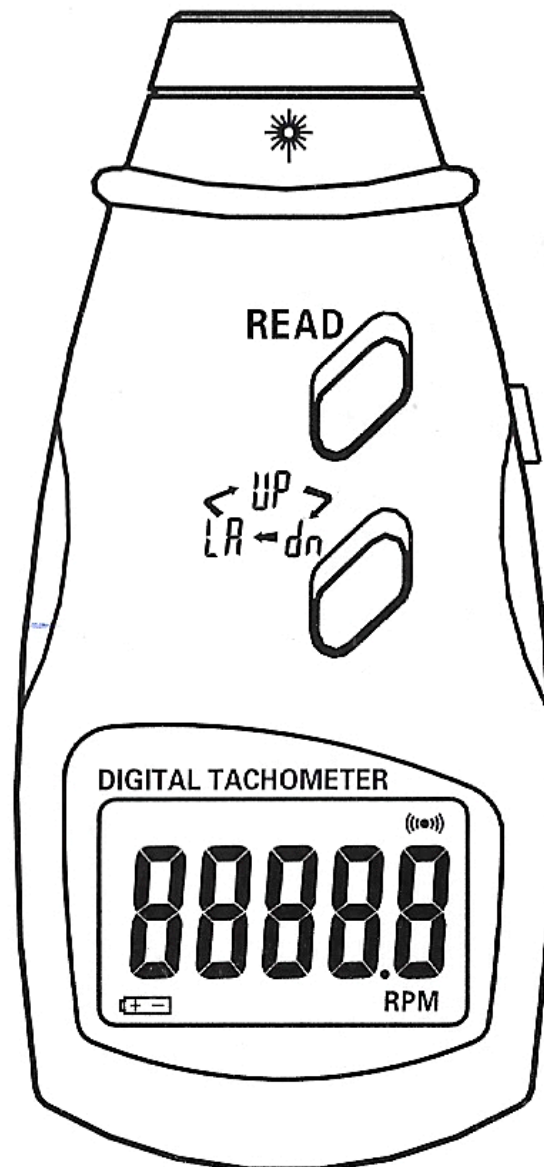


DIGITAL TACHOMETER OPERATION MANUAL

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As this device is an intellectual precise measurement apparatus, it is very important that you read through these instructions before using this device.

WARNING!!!

Do not point light beam of the instrument at or have it reflected into the eyes of people and animals to avoid injury.

I . FEATURES

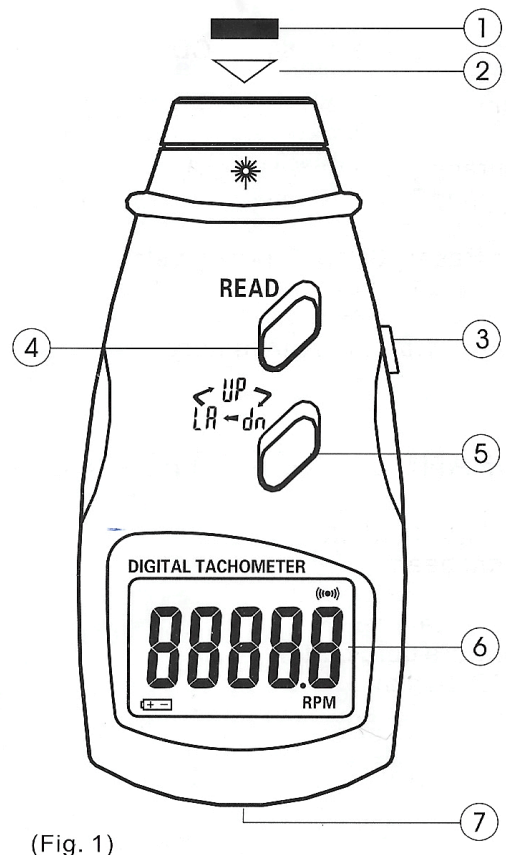
- 1.The tachometer uses microcomputer (CPU) technique; photoelectric technology, anti-jamming technique and junction laser technique for noncontact measurement of rotation speed (RPM).
- 2.Wide measuring range and high resolution.
- 3.Large screen LCD display provides clear reading.
- 4.Automatically save Max, Min and last value, also save 96 set of continuous data. (The tachometer starts to store data after first reading)
- 5.Low battery voltage indication.
- 6.Smooth housing design, comfortable to hold and use.
- 7.The instrument is delicate and rugged. It uses the durable, long-lasting components and a strong, light weight ABS plastic housing.

II. TECHNICAL SPECIFICATION

Display: 5digital, 18mm LCD
Range: 2.5~99999 RPM
Resolution: 0.1 RPM (2.5~999.9RPM)
1 RPM (above 1000RPM)
Accuracy: $\pm (0.05\%+1\text{digit})$
Sampling Time: 0.8second (over 60RPM)
Range Select: Auto-range
Time Base: 6MHz Quartz crystal
Detecting Distance: 50mm~500mm
Dimension: 155x70x35mm
Power: 1.5Vx3 AAA battery

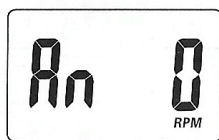
III. PANEL DISCRPTION (Fig. 1)

- 1.Reflective mark
- 2.Light beam
- 3.Measurement button
- 4.Read data button
- 5.Feature data button
- 6.LCD display
- 7.Battery cover

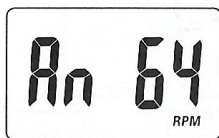


(Fig. 1)

there is not any data saved (Fig. 5). Each time Read data button is pressed, queue number and saved value is displayed on LCD in turns. (when measured values vary too big, the maximum sets of store data decrease). For example, 64 sets of data is saved during a measurement, it will display "An 64" (Fig. 6)

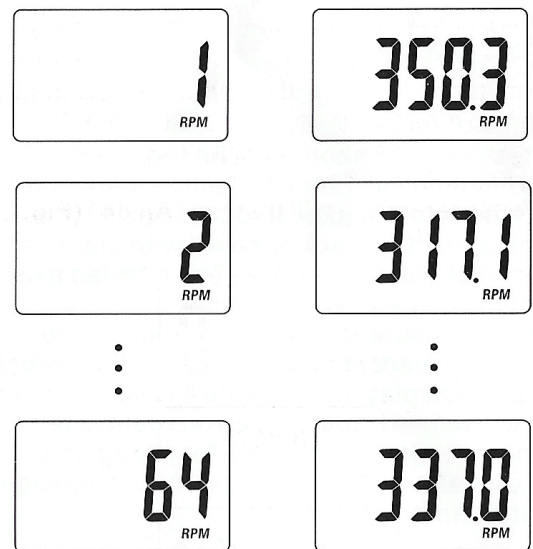


(Fig. 5)



(Fig. 6)

Each time Read data button is pressed, sets of data is displayed in order, such as first value is 350.3RPM, second value is 317.1RPM.... so on, and the 64th value is 337.0RPM(Fig. 7)



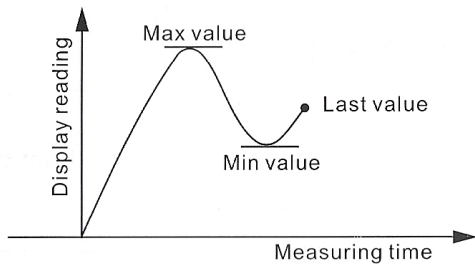
(Fig. 7)

VI. BATTERY REPLACEMENT

1. When battery voltage is too low, left side of LCD display "⚡" symbol that indicate that battery replacement is needed.
2. Open battery cover and take out low voltage battery.
3. Enter new batteries as indicated.

IV. MEASUREMENT OPERATION

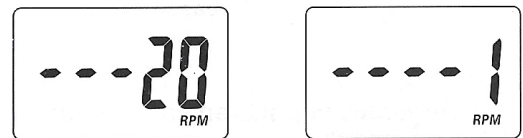
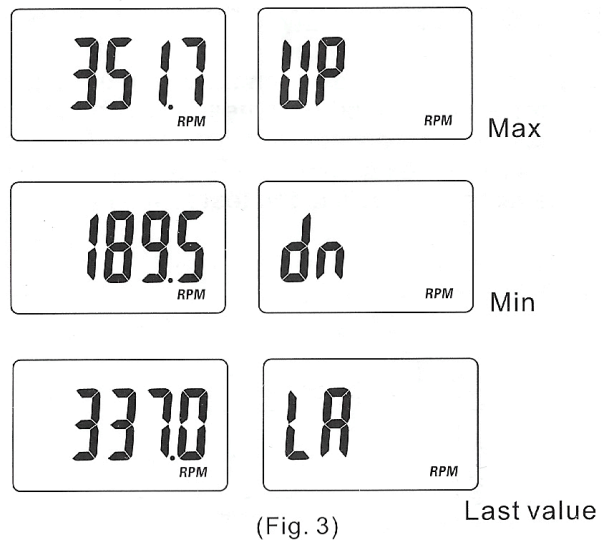
1. Stick a reflective mark on the object, install batteries, press and hold measurement button to point light beam at the reflective mark to start measure. After display data is stabled, release measurement button, and test result is automotive saved.
2. Press Feature data button to display Max, Min, and last value. (Fig. 2)



(Fig 2)

Each time Feature data button is pressed, LCD display English symbol then value in turns. "UP" for Max, "dn" for Min, and "LA" for Last value. (Fig. 3) To read all saved data, press and hold Read data button and LCD display a count down from 20 to 1. (Fig. 4) During this countdown, the meter still display Max, Min, and Last value if Read data button is released before countdown to "1", otherwise will enter a

- 4 -



mode to display series of data. When countdown to "1", LCD display "An*" (An is short for Anamnesis, * means the total amount of data that is saved). When "*" is zero, it mean

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VII. REMARKS:

1. Usage of reflective mark: the length of reflective mark should not be too short, recommend cut 12mm reflective mark and stick on rotation axis. If rotation axis reflect light, paint it to black or cover with black tape, then stick reflective mark. The rotation axis should be smooth and clean.
2. When measure low speed rotation, more reflective mark is recommend for more precise results. Display value divide by the number of reflective mark could give you real value.
3. If meter is not going to use for a long time, please take out batteries to prevent leakage which damage the meter.