As it is easy to get high resolution and fast sampling time, if measuring the very low RPM values, suggest the user to attach more "REFLECTIVE MARKS" averagely. Then divided the reading shown by the number of "REFLECTIVE MARKS" to get the real RPM.

6. MEMORY

6.1 A readout (the last Value, max. Value, Min. Value) obtained immediately is automatically memorized.

6.2 That Memorized value can be displayed on the indicator by turn once depressing the Selection button (Fig.1, 3-6). The Symbol "UP" represents the Max. Value and "dn" the Min. Value; "LA" , The last Value.

7. BATTERY REPLACEMENT

7.1 When it is necessary to replace the battery, i.e. battery voltage less than approx 5v , a battery symbol will appear on the display.

7.2 Slide the battery cover away from the instrument and remove the batteries.

7.3 Install the batteries (4x1.5V AA/UM3) correctly into the case.

DIGITAL ENGINE TACHOMETER (With Laser Detector)

This Digital Engine Tachometer is small in size, light in weight, easy to carry. Although complex and advanced, it is convenient to use and operate. Its ruggedness will allow many years of use if proper operating techniques are followed. Please read the following instructions carefully and always keep this manual within easy reach.

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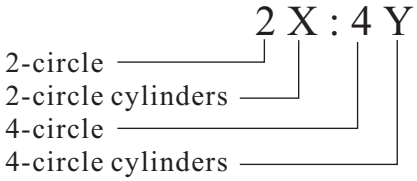
4. ENGINE TACHOMETER PROCEDURE

4.1 Slide the Function switch (Fig.1,3-7) to ENGINE position.

4.2 The engine type selected will be displayed on the Display (Fig.1,3-4). The engine type consist of 2 parts, partitioned by a colon. The left part is for 2-circle engines and the right part is or 4-circle engines as follows.



4.3 The engine type can be re-selected by depressing the Selection button (Fig.1,3-6).

4.4 Simply bring the detecting portion cords. An indicator (Fig.1,3-3) appears to indicate that the engine spark pulses are being detected properly. When it blinks at a fixed interval, the correct position has been established.

Note:

A: Some engines may have dead sparks resulting in twice the number of sparks as usual. In such cases, the engine type value selected should be set to two times the normal setting.

1. FEATURES

* Multifunctional. It combines the engine tachometer and laser tachometer into one. As Engine Tachometer to measure engine revolution at the high-tension cords, and as laser tachometer to measure the RPM or any rotating objects.
* The last Value / max. Value / min. Value will be automatically stored in memory and can be displayed by turn.
* Used the exclusive Micro-computer LSI-circuit and crystal time base to offer high accuracy measurement & fast measuring time.
* Wide measuring range and high resolution.
* Digital display gives exact reading with no guessing or errors.
* The use of durable, long-lasting components, including a strong, light weight ABS-plastic housing assures maintenance free performance for many years. The housing has been carefully shaped to fit comfortably in either hand.

2. SPECIFICATIONS

Display: 4 digits, 10 mm LCD
Application:
2-circle 1,2,3,4-cylinder
4-circle 1,2,3,4,5,6,8-cylinder
Any rotating objects

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Range:
Engine: 100~200 r/min
Laser: 2.5~99,999 r/min
Detection method:
Engine : Electromagnetic induction
(High tension cord)
Laser: reflection
Distance:
Engine: 10~200mm
Laser: 50~500mm, max up to 1500mm
Resolution: 0.1 RPM (2.5~999.9RPM)
1 RPM (over 1000RPM)
Accuracy: ±(0.05%n+1d)
Power supply: 4x1.5 AA(UM-3) battery
Operating condition: Temp. 0~50°C
Humidity <80%
Size: 178x68x39 mm
Weight: about 260g (including batteries)
Accessory:
Carrying case .....1 pc.
Operation manual .....1 pc.
Antenna .....1 pc.

B: For different types of engines, the intensity of spark signals may vary. Please adjust sensitivity resistance (Fig.1, 3-10) to make the tachometer to measure the RPM accurately.

5. LASER TACHOMETER PROCEDURE

5.1 Slide the FUNCTION SWITCH (Fig.1, 3-7) to "PHOTO" position.

5.2 Apply a reflective mark to the object being measured. Depress the MEASURE BUTTON (Fig.1, 3-5) and align the visible light beam (Fig.1, 3-2) with the applied target, verify that the INDICATOR (Fig.1, 3-3) lights when the target aligns with the beam (about 1 to 2 seconds.)

5.3 CONSIDERATIONS

5.3.1 REFLECTIVE MARK

Cut and peel adhesive tape provided into approx 12mm squares and apply one square to each rotation shaft. The non-reflective area must always be greater than the reflective area. If the shaft is normally reflective, it must be covered with black tape or black paint before attaching reflective tape. Shaft surface must be clean and smooth before applying reflective tape.

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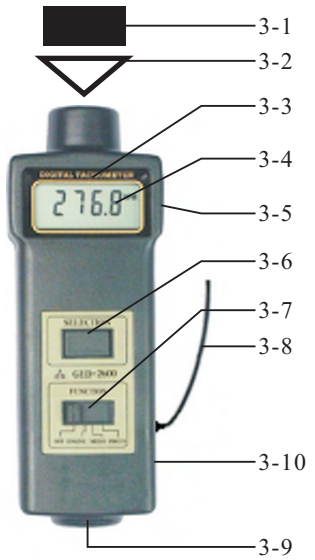
3. FRONT PANEL DESCRIPTIONS



3-1 Reflective Mark
3-2 Light
3-3 Signal Indicator
3-4 Display
3-5 Measure Button for Laser
3-6 Selection Button
3-7 Function Switch
3-8 Outer Antenna
3-9 In Built Antenna
3-10 Variable Resistance