

MULTIFUNCTIONAL TACHOMETER

DB22-DT237P

This 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.

- 3-1 USB Interface
- 3-2 Display
- 3-3 Monitor Indicator
- 3-4 Plus/Function Key
- 3-5 Power/Masurement Key
- 3-6 Minus/Send/Memory Key
- 3-7 Battery Cover On The Back

4. PHOTO TACH. MEASUREMENT

- 4.1 Apply a reflective mark to the object being measured. If the test RPM less than 50 RPM, suggest to attach more Reflective Marks averagely. Then divided the reading shown by the number of Reflective Marks is the real RPM to get high resolution & stability on display reading.
- 4.2 REFLECTIVE MARK
Cut and peel adhesive tape provided into approx. 12mm (0.5)square sand apply one square to each rotation shaft.
 - a. The non-reflective area must always be greater than the reflective area.
 - b. If the shaft is normally reflective, it must be covered with black tape or black paint before attaching reflective

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1. FEATURES

- * Used the exclusive MICRO-COMPUTER LSI-circuit and crystal time base to offer the high accuracy measurement & fast measuring time.
- * Measuring RPM is safe & accurate without attachment to object.
- * Wide measuring range & high resolution.
- * Digital display gives exact RPM with no guessing or errors.
- * The last Value / max. Value / min. Value will be automatically stored in memory and can be obtained by pressing Memory Key.
- * Automatic power off to conserve power.
- * 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.
- * Can communicate with PC for recording, printing and analyzing by the optional software and cable for USB interface. Bluetooth interface can also be used.

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- 4.3 Press the Power Key or Power/ Measurement Key to turn on the meter.
- 4.4 Press the Power/Masurement Key, the PHOTO TACH. Sensor emits a visible light beam. Align the visible light beam with the applied target. Verify that the Monitor Indicator lights when the target passes thru the light beam. Measurement starts.
- 4.5 During measuring, the last Value, max. Value, min. Value are automatically memorized. The data can be find by pressing Minus/Send/ Memory Key. For details see 5.

5. MEMORY CALL OPERATION

During measuring, the Last Value, max. Value, min. Value are automatically memorized. The data can be find by pressing Minus/Send/Memory Key. Firstly the Maximum Value Indicator and the Maximum Value is displayed. And then the Minimum Value Indicator and the Minimum Value is displayed.

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2. SPECIFICATIONS

Display: LCD (Liquid Crystal Display)
 Measurement Range: 2.5~99,999 RPM
 Resolution: 0.1 RPM (0.5 ~ 999.9 RPM)
 1RPM (over 1,000 RPM)
 Accuracy: $\pm(0.05\% + 1\text{RPM})$
 Sampling Time: 1 sec. (over 60 RPM)
 Test Range Select: Automatic
 Memory:
 Last Value, Max. Value, Min. Value.
 Detecting Distance:
 50 to 250mm / 2 to 10 inch.
 (typical max. 600mm/24 inch).
 Battery: 4x1.5AAA(UM-4) battery
 Operation temp. : 0~50°C (32~122°F)
 Size: Main Unit: 140x77x32mm
 (5.5 x2.8x1.2inch)

Accessories :

Carrying case1pc.
 Reflective tape marks (350mm)..2pc.
 Operation manual.....1pc.

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Finally, the Last Value is displayed. These 3 values are displayed cycle.

6. BATTERY REPLACEMENT

- 6.1 When it is necessary to replace the battery, i.e. battery voltage less than approx. 5v, symbol “ $\square \oplus \square$ ” will appear on the Display.
- 6.2 Slide the battery cover away from the instrument and remove the batteries.
- 6.3 Install the batteries(4x1.5VAAA/UM-4) correctly into the case.
- 6.4 If the instrument is not to be used for any extended period, remove batteries.

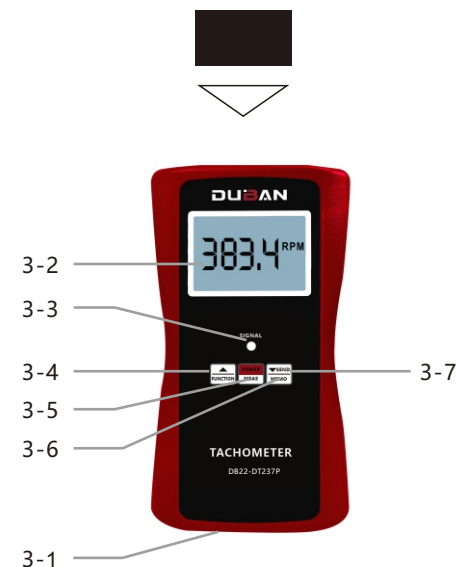
7. Communicating with the PC

Install the batteries correctly into the case. Can communicate with PC for statistics and printing by the optional cable and software for USB and Bluetooth. Follow the instructions of transferring readings to a computer.

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3. PANEL DESCRIPTIONS

3.1 Front Panel Descriptions



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