

DIGITAL PHOTO TACHOMETER

OPERATION MANUAL

WARNING!!

TO AVOID INJURIES TO ANIMAL
OR HUMAN EYES, PLEASE DO NOT
POINT THE LASER BEAM IN EYES
OR LOOK DIRECTLY INTO BEAM.

Please read the following instructions carefully.

1.FEATURES

- Wide measuring range & high resolution
- Large LCD displaying
- The last value/max. value/min. value will be automatically stored.
- Low battery indication.

2.SPECIFICATIONS

Display: 5 digits, 18mm LCD displaying

Test range: 2.5 to 99999 RPM(r/min)

Resolution: 0.1 RPM (2.5 to 999.9 RPM)

1 RPM (over 1000 RPM)

Accuracy: $\pm(0.05\% + 1 \text{ digit})$

Sampling time: 0.8 sec.(over 60 RPM)

Test range select: automatic

Memory: max. value, min. value last value

Detecting distance: 50 to 500 mm

Time base: 6MHz crystal oscillator

Circuit: exclusive one-chip of microcomputer LSI circuit

Battery: 3 X 1.5V AA (UM 3) battery

Power consumption: approx. 40mA(operation)

Operation temp : 0 to 50 °C (32 to 122 °F)

Size: 160 X 74 X 37mm

Weight: approx. 200g(including batteries)

3.MEASURING PROCEDURE

3.1. Apply a reflective mark to the object being measured.

3.2. Press "TEST" key after installing the batteries and align the visible light beam with the applied target.

- 3.3. Release the "TEST" key when the displaying is stable. At this time, there is no displaying on LCD, but the max. value, min. value and last value will be stored automatically.
- 3.4. Press "MEM" key will display the max. value, min. value and last value.

4.NOTE

4.1 REFLECTIVE MARK

- 4.1.1 Cut and peel the adhesive tape into an approx. 12mm square and apply one square to each rotation shaft. Note that the non-reflective area must always be larger than the reflective area. If the shaft is 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.
- 4.2 Low tachometric measuring: it is recommended that you can put more than one reflective mark on the object averaged, the real value = displaying value / reflective mark

4.3 For long time storage, please take out the batteries.

5. MEMORY

5.1 When releasing the MEASURE KEY, LCD will indicate nothing, but the max. value, min. value, last value, will be automatically memorized.

5.2 The memorized value can be displayed on the LCD by depressing the memory button. The symbol "UP" represents the max. value and "DN", the min. value; "LA" refers to the last value.

6. BATTERY REPLACEMENT

- a) It is necessary to replace the battery (battery voltage is less than approx. 4V) when "⊠" signal appears on the display.
- b) Slide the battery cover away from the instrument and remove the battery.
- c) Install the batteries (3 X 1.5V AA/UM-3) correctly into the case.