

SHIMPO



**HAND
DIGITAL
TACHOMETER**

< DT-205 >

Instruction Manual

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IMPORTANT

SHIMPO DT-205 is warranted against defects in material and workmanship.

SHIMPO shall replace or repair any part proven to be defective within one year after the date of purchase.

Return the damaged unit to the shop you bought from or to us prepaid with a written explanation of the problem. Any unauthorized attempt at servicing any SHIMPO product will void this warranty.

ARKIV.

1. GENERAL

SHIMPO DT-205 is a battery operated, handheld, computer-circuitry-controlled, non-contact type tachometer. The DT-205 will directly display RPM measurements sensed from an easy-to-aim visible light beam directed toward a rotating shaft. It incorporates latest micro-computer technology to provide:

- MEASUREMENT OF SPEEDS AS LOW AS 6RPM!!!
The only non-contact tachometer with this capability!!
- CMOS SINGLE CHIP MICRO COMPUTER HIGH RELIABILITY AND LOW MAINTENANCE
- LARGEST MEMORY CAPACITY
- OVERSIZED 5 DIGIT LCD
- RUGGED CONSTRUCTION

2. SPECIFICATIONS

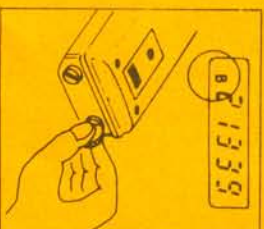
Manufactured by
SHIMPO INDUSTRIAL CO., LTD.
338 Tonoshiro-cho, Kuze, Mirami-ku, Kyoto, Japan
Phone: 075-921-7151 Telex: 5429-903 SHIMPO J
Cable: "SHIMPO KYOTO"
Fax: 075-934-4898



- Reading Range 6 — 30,000 rpm
- Accuracy • 1 rpm — 6 to 5,000 rpm
- 2 rpm — 5,000 to 30,000 rpm
- 5 digit 9mm high LCD
- Display Last reading displayed for 2 minutes after instrument removal. Four intermediate readings, last, maximum and minimum readings stored in memory automatically or by selection.
- Memory System Single-chip CMOS micro-computer
- System Control Effective Distance: Up to 500mm
- Detection Light Source: Incandescent light
- Up-Date Gate Time Sensor: Photo-transistor
- Batteries, included Reflection Mark: Single tab reflective tape
- Low Voltage Indicator Typically 1 second
- Operating Temperature Size: 4 1.5V AA
- Construction Life: averages 6 hours continuous use
- Weight "B" flashing display
- Dimensions 0 — 45°C
- Accessories Included Die-cast aluminum housing
- 450g
- 172 x 61 x 51mm
- Warranty 35 Reflective tabs, pressure sensitive
- Operating Instructions Carrying case
- 1 year

3. BATTERY REPLACEMENT

Low battery voltage is indicated by a flashing "B" readout display. Loosen end cover screws and replace batteries. Please note polarity as reversing polarity will cause unit to show no display.



* This instrument (DT-205) is already loaded with batteries before distribution.

4. OPERATING PROCEDURE

1.



Attach reflective tape to rotational element. Non-reflective area must always be greater than reflective area.

If shaft is normally reflective, cover with black tape or black paint before attaching reflective tape.

2.



Tach should be aimed perpendicular to shaft at a distance of 2 inches to 3 feet. Press and hold on-off switch. "T" will appear on display when unit is properly aligned.

3. Hold on-off switch on. Display will be updated in approximately 1 second intervals.

4. On-off switch must be released prior to removal of tachometer from rotating object.

5. After removal, unit will display last reading. This reading will remain in the display for a period of 2 minutes after release of on-off switch. This 2 minute retention may be extended any number of additional 2 minute periods by re-pressing memory switch.

5. MEMORY RECALL INSTRUCTIONS

A. Automatic Memory

The following are automatically stored in memory for 2 minutes following release of memory switch.

Last 4 Readings
Maximum Reading
Minimum Reading

These readings will be displayed in the following order when memory is pressed:

1st Press: Last reading **1** **21343**
2nd Press: Next to last reading **2** **21338**
3rd Press: 3rd to last reading **3** **21340**
4th Press: 4th to last reading **4** **21339**
5th Press: Maximum reading **21345***
6th Press: Minimum reading **21338***

To fill all memory spaces, unit must be run for about 5 seconds. If an above memory readings are missing, unit needs longer operation.

B. Selection Memory

This mode is designed for laboratory use only and not applicable for general application.

Press memory switch briefly as reading you wish stored appears on display. A dot will blink at end of display (see fig.1). Up to 4 selections can be stored. (Each blink of dot represents 1 memory storage).

1st Press: 4th selection **1** **21343**
2nd Press: 3rd selection **2** **21338**
3rd Press: 2nd selection **3** **21340**
4th Press: 1st selection **4** **21339**
5th Press: Maximum reading **21345***
6th Press: Minimum reading **21338***

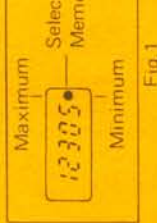


Fig.1

Note: All memory data will be erased if on-off switch is pressed or if automatic shut-off has occurred.