



## **INSTRUCTION MANUAL**

**MT950**

**NON-CONTACT TACHOMETER**



## Warning

To avoid injuries to animal or human eyes, please do not point the laser beam in eyes or look directly into beam. If the instrument is not to be used for any extended period, remove the battery.

## Features

1. Provides fast and accurate non-contact RPM and surface speed measurements of rotating objects.
2. Uses the CPU technique, photoelectrical technique, and junction laser technique for one instrument combined PHOTO TACH. (RPM&REV)
3. Two test modes: rotate speed mode (unit: RPM) & count mode (unit: REV)
4. Wide measure range and high resolution.
5. High visible digital LCD and Backlight display.
6. Built-in memory recalls Max Min and Last value stored.

## Specifications

Display	5 digits LCD display
Accuracy	$\pm(0.05\% + 1 \text{ digits})$
RPM Test Range	2 to 99,999 RPM
Count Range	1 to 99,999 REV
Resolution	0.1 RPM (2 to 999.9 RPM) 1 RPM. (over 1000 RPM)
Sampling Time	0.5 seconds (over 120 RPM)
Detecting Distance	50mm to 500mm
Time Base	Quartz crystal
Power Consumption	Approx. 45mA
Battery	9V or 6V Exterior DC
Operation Temp	0°C to 50°C

Dimension	160 x 58 x 39mm
Weight	151g

## Measuring Manual

Apply a reflective mark to the object being measured. Hold down the **MEAS** button and align the visible light beam with the applied target. Verify that monitor indicator lights when the target aligns with the beam. The meter turns on with the previously used mode. If you need to change the mode, release the **MEAS** button and press the **MODE** button to change between **RPM** and **REV**. Hold down **MEAS** to activate the new mode. The instrument auto powers off in 10 sec after releasing the **MEAS** button. Press the **MEM** button to recall the last measurement readings for the Max, Min and Last value.

## Measuring Considerations

1. Reflective Mark
  - Cut the adhesive tap provide into approx. 12mm (0.5") 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.
2. Very Low RPM Measurement
  - As it is easy to get high resolution and fast sampling time, if measuring the very low RPM values, suggest user to attach more "REFLECTIVE MARKS" averagely. Then divide the reading shown by the number of "REFLECTIVE MARKS" averagely. Then divide the reading shown by the number of "REFLECTIVE MARKS" to get the real RPM



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