

# Digital Touch Tachometer

## INTRODUCTION

This instrument can be used to measure rotation speed ( RPM ) and surface speed accurately and safely. It features wide measurement range, high resolution, and quick measurement. In addition, the memory of the maximum, minimum and last readings is provided. It can be used widely and is a very useful measurement tool.

## GENERAL SPECIFICATIONS

**Display:** LCD

**Measurement Range:** rotation speed: 1 ~ 19999RPM  
 surface speed: 0.1 ~ 1999.9m/min  
 0.3 ~ 6560ft/min

**Resolution:** rotation speed: <1000RPM: 0.1RPM  
 ≥1000RPM: 1RPM  
 surface speed: < 100m/min: 0.01m/min  
 ≥100m/min: 0.1m/min  
 < 100ft/min: 0.03ft/min  
 ≥100ft/min: 0.3ft/min

**Accuracy:** rotation speed:  $\pm(0.05\% \text{ of reading} + 1 \text{ digit})$

**Sampling Time:** 1 second ( over 60 RPM )

**Range Selection:** automatic

**Data Memory:** LAST/MIN/MAX readings

**Power Supply:** a. Battery:  
 1.5V, AA or equivalent, 4 pieces  
 b. Using AC Adapter:  
 output voltage of DC6V  
 ( Note: You can select " a " or " b " for power supply. )

**Operating Environment:** 0 ~ 40°C, <85%RH

**Storage Environment:** -10 ~ 50°C, <85%RH

**Size:** 217×84×43mm ( main body only )

**Weight:** about 265 ( including batteries )

**Accessories:** manual, ac adapter ( optional )

### 1. Rotation Axis

The part where to install surface speed test wheel or rotating touch part

### 2. TEST Button

Press and keep pressing this button to perform test.

### 3. Display

It shows reading, unit or symbol.

### 4. MEMORY Button

It can be used to recall the last reading, the minimum reading, and the maximum reading of the last measurement.

### 5. Function Switch

It can be used to select desired measurement :

**FT/MIN** ——— linear speed measurement, reading unit " ft/min "

**M/MIN** ——— linear speed measurement, reading unit " m/min "

**CONTACT** — rotation speed measurement, reading unit " RPM "

### Parts :



Rotating Touch Part ( cone type, for RPM test )



Rotating Touch Part ( concave type, for RPM test )



Surface Speed Test Wheel

Figure 2

## INSTRUCTION

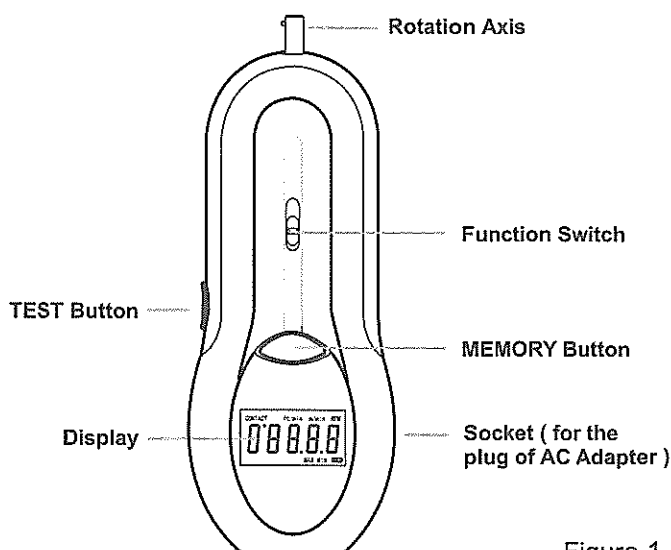


Figure 1

## DISPLAY EXPLANATION

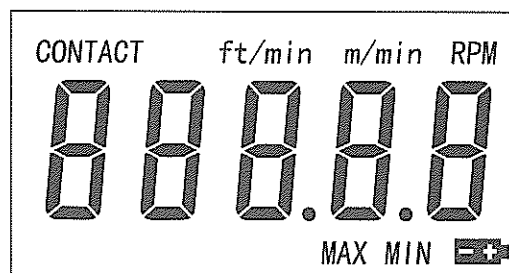


Figure 3

### Symbol Meanings:

——— Batteries are low and should be replaced.

**MAX** ——— Maximum reading is being displayed.

**MIN** ——— Minimum Reading Is being displayed.

**CONTACT** — Touch test mode symbol

**ft/min** — Speed unit, feet/minute

**m/min** — Speed unit, meter/minute

**RPM** ——— Rotation speed unit ( revolutions per minute )



## OPERATION INSTRUCTION

### 1. RPM Measurement

- Select a suitable rotating touch part, and install it to the rotation axis properly, make sure the rotating touch part will not slide out during measurement.
- Set the function switch to " **CONTACT** " range position.
- Lightly press the rotating touch part against the center of the turning object ( Figure 4 ), press and keep pressing the **TEST** button.  
Read the reading when it is stable.
- Release the **TEST** button.

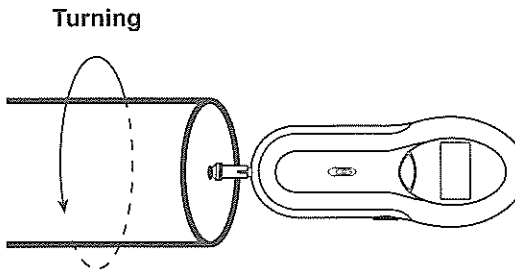


Figure 4

### 2. Linear Speed Measurement

- Install the surface speed test wheel to the rotation axis properly, make sure the surface speed test wheel will not slide out during measurement.
- Set the function switch to " **M/MIN** " or " **FT/MIN** " range position.
- Lightly press the surface speed test wheel against the surface of the turning object ( Figure 5 ), press and keep pressing the **TEST** button.  
Read the reading when it is stable.
- Release the **TEST** button.

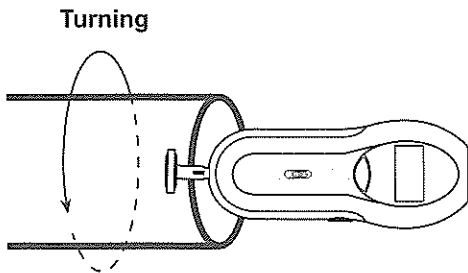


Figure 5

### 3. Memory Function


Each time after you finish a measurement and release the **TEST** button, the maximum, minimum and last readings of this measurement are stored in the instrument.

Repeat the " press and hold down **MEMORY** button and then release it " procedure to step through the last reading, the minimum reading (symbol " **MIN** " appears), and the maximum reading (symbol " **MAX** " appears).

## NOTE

- For RPM measurements, the rotating touch part must be placed at the center of the turning object to be tested. ( Figure 4 )
- For any measurement, the rotating touch part or the surface speed test wheel must turn synchronistically with the turning object when you perform measurement.
- To avoid injury, don't touch any turning object with hand ( or part of body ), or clothing.  
Wear an eye protector while using this instrument.

## BATTERY REPLACEMENT

When the low battery indicator "  " appears, it is necessary to replace the batteries immediately.

To replace the batteries, remove the screw on the battery cover, carefully and gently remove the battery cover, replace the exhausted batteries with four new batteries of the same type (1.5V, AA or equivalent ). **To avoid damage to the instrument, make sure that the polarity connections are correct.**  
Reinstall the battery cover and the screw.

### Note:

- Don't discard battery into fire.
- Don't short battery's terminals.
- Keep battery and this instrument out of reach of infant and child.

## DECLARATION

- This users manual is subject to change without notice.
- Our company will not take the other responsibilities for any loss.
- The content of this manual can not be used as the reason to use the instrument for any special application.

### DISPOSAL OF THIS ARTICLE

Dear Customer,  
If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled.  
Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.

