

## Note:

Reflective mark: Cut a 1/2 in. to 1 in. square of the reflective belt. Stick it onto the rotation axis of the measured object. Reflective area must be big enough. If the rotation axis itself is reflective, blacken the axis or cover an area with black tape and stick the reflective belt onto it. (To avoid injury, turn off the measured object and wait until it comes to a complete stop. The position to be stuck with the reflective belt must be clean and smooth.)

Lower speed rotation testing: To get a high test accuracy, it is suggested to stick several reflective belts onto the measured object. The actual rotation speed is the reading value on the LCD divided by the quantity of reflective belt pieces used.

As a handheld meter, errors may occur if the operator's arm shakes during measurement. If necessary, it is suggested to place the meter on stable surface before measurement.

To avoid damage by battery leakage, remove the battery if the meter is not being used for an extended period of time.

To protect the environment, dispose of used batteries appropriately.

## 1 YEAR LIMITED WARRANTY

PERFORMANCE TOOL® extends only the following warranties, and only to original retail purchasers. These warranties give specific legal rights. Except where prohibited by local law, the law of the State of Washington governs all warranties and all exclusions and limitations of warranties and remedies. There may be other rights which vary from state to state.

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# DIGITAL LASER TACHOMETER

Stock Number W89719

## OWNER'S MANUAL



Performance Tool®

### ▲WARNING

*It is the owner and/or operators' responsibility to study all WARNINGS, operating, and maintenance instructions contained on the product label and instruction manual prior to operation. The owner/operator shall retain product instructions for future reference.*

*The owner and/or operator are responsible for maintenance, maintaining all decals or warning labels and while in use, maintaining the unit in good working order. If the owner and/or operator are not fluent in English, the product warnings and instructions shall be read and discussed with the operators' native language by the purchaser/owner or his designee. Make sure that the operator comprehends its contents. Safety information shall be emphasized and understood prior to usage.*

*Protect yourself and others by observing all safety information.*

*Failure to comply with instructions could result in personal injury and/or property damage!  
If you encounter any problems or difficulties, please contact our customer service department at:  
1-800-426-1262 between 6:30 a.m. and 4:30 p.m. Pacific time.*

**PT**  
Performance Tool

Please read these instructions carefully and retain them for future use.

On occasion, after printing of our literature is completed, our manufacturers may make changes and/or modifications to merchandise which will not be reflected in this manual. Although we strive to maintain complete and accurate information, it is possible in some instances, that the product may differ slightly from printed specifications. Illustrations are intended for reference only. Actual merchandise may vary. Wilmar is not responsible for typographical errors.

## PRODUCT FEATURES

- This device adopts the anti-interference technology, photoelectric technology, semiconductor laser technology and microcomputer (CPU) technology to achieve the function of non-contact rotation speed measurement.
- It features wide measuring range and high resolution.
- With ultra-big LCD display, it provides clear reading without parallax.
- It can automatically save the measured max value, minimum value and the last display value
- It is powered with one 9V battery, and benefits long time and continuous working due to its better energy saving performance.
- When the power voltage is lower than the regulated value, it problems with the mark of battery.
- It is designed with streamline appearance, the whole device adopts durable and quality electronic components, and the housing adopts light and solid ABS, and features longer service life.

## SPECIFICATIONS

LCD Display:	5-digit 18mm character height LCD
Power Supply:	Single 6F22 9V battery
Time Base:	6MHz quartz crystal oscillator
Range Selecting:	Automatic switching
Testing Range:	2.5rpm-99999 rpm(revolutions per minute)
Resolving Power:	0.1 rpm (2.5~999.9 rpm) 0.1 rpm (over 1000 rpm)
Measuring Accuracy:	±(0.05%+1 character)
Sampling Time:	0.8s (over 60rpm)
Effective Measuring Distance:	50mm-20mm (LED light source) 50mm-500mm (laser light source)
Instrument Dimension:	131*70*29mm
Power Consumption:	About 35mA
Portable Fabric Bag:	1
Operation Manual:	1
Battery:	6F22 9V
Reflecting Belt Length:	24 in.

## CONTROLS AND FUNCTION

1. Reflection Mark
2. Light Path
3. Memory Button
4. Measurement Button
5. LCD Display
6. Battery Chamber Cover

This tool is capable of the following:

- Rotating speed test
- Maximum and minimum speed test

**▲WARNING:** Do not directly shine the eyes of human or animal with the light beam transmitted from the device for avoiding hurt to the eye.



## OPERATION

### Measurement

- Apply a reflective mark to the object being measured while it is in the stopped position. Let the object rotate as normal.
- Press "TEST" key after installing the batteries and align the visible light beam with the applied target.
- Release the "TEST" key when the LCD display is stable. At this time, there are no values displayed on LCD, but the MAX value, MIN value and last value have been stored automatically.
- Press "MEM" key to display the max. value, min. value and last value.
- Test is finished.

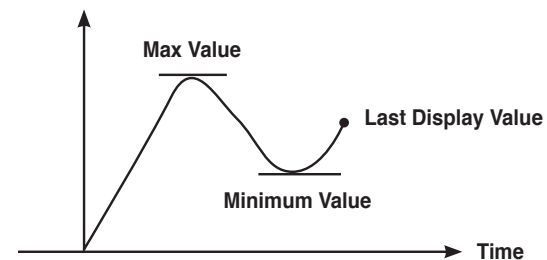
### Memory

When you release the "TEST" key, there are no values displayed on LCD but the MAX/MIN/last values have been stored automatically, press "MEM" key at any time, the test values will be displayed on LCD again, it will alternatively display value and English symbol. When the LCD displays "UP", it means the MAX value. When it displays "dn", it means the MIN value. When it displays "LA", it means the last value (refer to Figure 1).

### Battery replacement

- When the LCD displays "⊕ - ⊖" symbol, it means the battery is low and it needs to be replaced. (Although the meter can test and has reading under low battery, the accuracy can not be guaranteed)
- Open the battery cover, take out the old battery.
- Install a new 9v 6F22 battery according to the positive and negative polarities, then put back the battery cover.

### Rotating Speed



For Example:

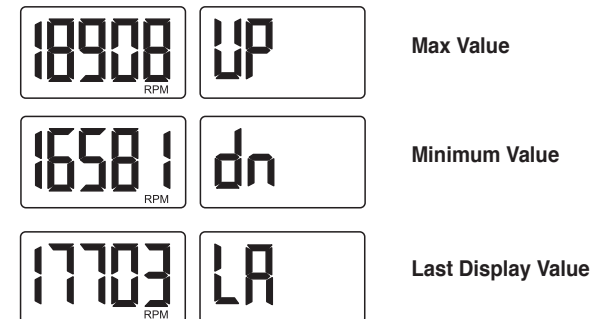


Fig. 1