

Note: Units must be changed to RPM before removing the top portion. Velocity readings of M/Min, Ft/Min, and Yd/Min in non-contact mode are not valid.

To return to contact mode, attach contact head and secure screw to meter body.

Sleep Mode

The meter turns off automatically after 20 minutes inactivity. To disable the sleep mode, hold down **5** and **6** keys simultaneously to turn on the meter. First release **5** key, and it shows "n" on the LCD. Then release **6** key and it enters measuring mode in non-sleep status.



SPECIFICATION

Measuring Range	Resolution
10.000~99999 RPM	0.001/0.01/0.1/1
1.0000~9999.9 M/MIN	0.0001/0.001/0.01/0.1
3.0000~30000 FT/MIN	0.0001/0.001/0.01/0.1
1.0000~10000 YD/MIN	0.0001/0.001/0.01/0.1
Meter per second (M/Sec.) = Ft/Min x 0.00508 = M/Min / 60 = Yd/Min x 0.01524	
Accuracy	±(0.1% of rdg. + 2 digits)
Measuring distance	5~30cm (non-contact)
Time base	4.0Mhz Quartz Crystal
Sampling time	1 sec. (>60rpm) >1 sec. (10~60rpm)
Operating Temperature	0~50°C (32~122°F)
Operating Humidity	Max. 80% RH.
Power Supply	9V battery
Power Consumption	5µA (Idle) 18mA (Measurement)

CAUTION! Do not contact measure rotating speeds that exceed the measuring ranges. It may cause physical injury or meter damage.

MAINTENANCE

Case Cleaning

Use damp cloth with caution to clean the exterior housing. Ensure no water or soap is allowed to drop inside the meter or on the lens.

WARRANTY

The TACH2 is warranted to be free from defects in materials and workmanship for a period of one year from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEI's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEI shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss.

A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge. Return the unit postage paid and insured to:

1-800-547-5740 • FAX: (503) 643-6322
www.ueitest.com • Email: info@ueitest.com

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Para la versión en español de este manual por favor visite www.ueitest.com

Pour une version française du manuel de l'utilisateur s'il vous plaît visitez www.ueitest.com

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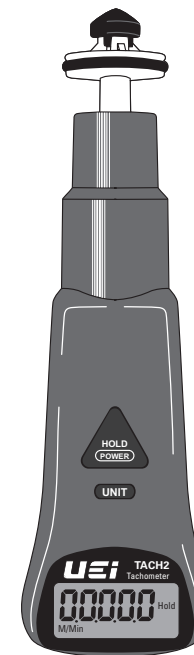
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UEI TACH2
TEST INSTRUMENTS™

Contact / Non-contact TACHOMETER

INSTRUCTION MANUAL

ENGLISH



1-800-547-5740 • Fax: (503) 643-6322
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GENERAL SPECIFICATIONS

The UEi TACH2 measures rotational speed using either contact or non-contact methods. Measurements of RPM's up to 99,999 are possible, with resolution automatically changing throughout the range. The TACH2 will also measure surface velocity using the included contact wheel.

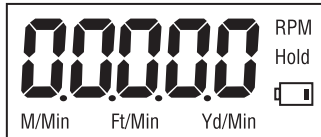
Features:

- Dual measurement modes, contact or non-contact
- Data hold
- Auto power off after 20 minutes inactivity
- Low battery indicator
- Selectable velocity units (contact mode only)

Includes:

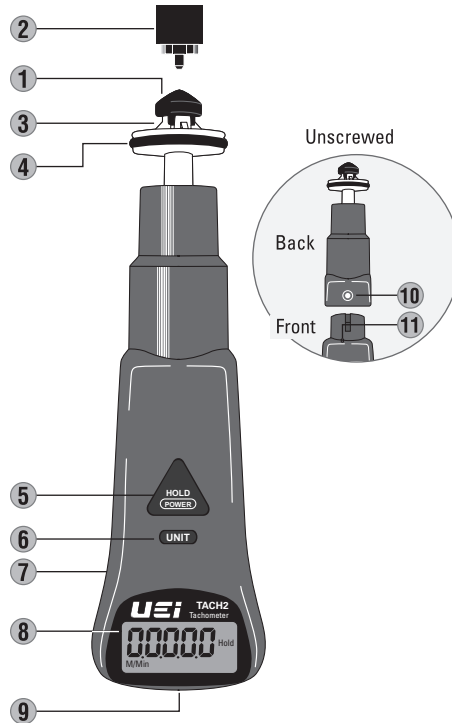
- Meter
- 9V battery
- Operation manual
- Cone and funnel contact tips (contact mode only)
- Reflective tape (non-contact mode only)

CONTROLS AND INDICATORS



- RPM: Revolutions per minute
- Hold: Freeze current display value
- : Low battery indicator.
- M/Min: Meters per minute (velocity)
- Ft/Min: Feet per minute (velocity)
- Yd/Min: Yard per minute (velocity)

CONTROLS AND INDICATORS



1. Cone (Convex) contact tip
2. Tunnel (Concave) contact tip
3. Contact adaptor
4. Wheel (w/ O-ring) for linear surface
5. Power & Hold key
6. Unit select key
7. Battery cover (rear)
8. Front panel & LCD display
9. Power on/off
10. Junction screw
11. Mode switch

OPERATING INSTRUCTIONS

Power on/off

The meter has two power keys. One is the triangle button **5** on the front of the housing, the other is smaller and located at the bottom of the meter. The small alternative button is for easy access when measuring objects in a down-view orientation.

Press either button to power on the meter. The full display appears briefly, then the meter enters normal operation mode. Turn the meter off by pressing either button for three seconds.

The meter will automatically power off after 20 minutes of inactivity.

Data Hold

Briefly press key **5** to hold the reading on the display. The "Hold" icon will show when the display is showing a held value. Briefly press key **5** again to return to live readings.



Select Unit (Contact mode only)

4 Speed units are selectable in contact measurement mode. Short press **6** button and it displays RPM, M/Min, Ft/Min, Yd/Min and then return to RPM.

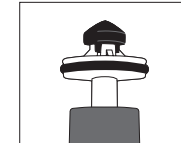


Note: For non-contact measurement, it reads rotating speed in RPM unit only.

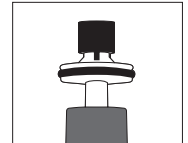
Contact Measurement

Select the desired contact tip (Convex or Concave) and mount it on the adaptor. Fit the tip into the rotating object and it displays readings on the LCD. For rotating wheels or belts with a flat surface, contact the surface with the edge of the TACH2's wheel **4**.

This is a good method for measuring rotating speed of Conveyors, Pumps, Motors, Gears, Pulleys, Shafts, Flywheels and Elevators.



Convex



Concave

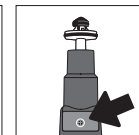
Non-Contact Measurement

Reflective tape is included for measurement. Attach the reflective tape to the surface of the rotating object. Hold the meter towards the rotating object, with the receiving sensor perpendicular to the reflective tape. Hold the meter at a distance of 2 to 12 inches from the rotating object for accurate readings.

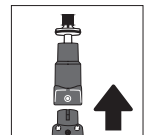
Switch Modes



A. Unit change



B. Unscrew



C. Remove

- Select RPM as units (must be done prior to removing contact head)
- Remove screw securing contact head to meter body
- Remove contact head