



ATD-5582 Pro Laser Tachometer



Features:

- Ideal tool for easy and accurate measurement of rpm in almost any environment
- High intensity laser beam not affected by shop light, detects rpm from up to 6 ft. away
- Measures up to 99,999 rpm in 1 rpm increments and can be used to measure rpm on coil-on-plug and diesel engines
- Simple operation, just aim at reflective mark to get rpm
- Memory function saves maximum and minimum rpm readings
- Zippered case, reflective tape, instructions and 9V battery included

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1. FEATURES

- The ATD-5582 is a precision rpm measuring instrument. This tachometer features durable, long lasting components and a strong, yet lightweight double mold plastic housing. The housing has been ergonomically shaped to fit comfortably in either hand.
- This tachometer uses a microprocessor CPU, photoelectric technology and junction laser technology to precisely measure rotations per minute (rpm). This instrument can take measurements in both PHOTO TACH mode (rpm) and TOTAL (TOT) counting mode.
- Wide measuring range, from 0 to 99,999 rpm. High resolution, highly visible, backlit LCD display.
- Memory function will recall MAX reading, MIN reading and LAST recorded reading. During operation, these readings will be automatically stored in memory and can be displayed pressing MEMORY CALL BUTTON.
- Low battery voltage indication.

2. SPECIFICATIONS

Display.....	5 digit LCD display, 0.7" (16mm) LCD
Accuracy.....	+/- (0.05% + 1 digit)
Sampling Time.....	0.5 sec (over 120 rpm)
Range Select.....	Auto-ranging
Memory.....	Max value / Min value, Last value
Detecting Distance.....	1.96" - 19.68" (50mm to 500mm)
Time Base.....	Quartz crystal
Power Consumption.....	Approx. 50mA
Battery.....	9V battery
Operation Temp.....	32° F - 122° F (0° C - 50° C)
Dimension.....	6.29" x 2.28" x 1.53" (160 x 58 x 39mm)
Weight.....	0.332 lbs. (151g) including battery

3. PHOTO TACHOMETER

Test Range.....	2.5 to 99,999 rpm
Resolution.....	0.1 rpm (2.5 to 999 rpm) 1 rpm (over 1,000 rpm)
Total Test Range.....	1-99,999 rpm

3-1 REFLECTIVE TAPE: (ESI-654)

Cut and peel adhesive tape (Part number ESI-654) provided into .5" (12mm) squares (approximately thumbnail size) and apply one square to the rotation shaft.


A) The non-reflective surface must always be duller than the reflective mark (tape).

B) If the shaft is already reflective, it must be covered with black tape or or black paint before attaching reflective tape.

Shaft surface must be clean and smooth before applying tape.

3-2 MEASURING PROCEEDURE:

Apply a piece of reflective tape to the object being measured. A thumbnail sized piece is recommended. Depress the MEASURE button and align the visible light beam with the target reflective tape.

Verify that the MONITOR INDICATOR  is displayed after the light beam aligns with the target reflective tape. When this symbol is displayed, the tachometer is receiving a good reflection from the tape and accurate measurements can be taken.

3-3 VERY LOW RPM MEASUREMENT:

If measuring very low rpm values, below 120 RPM, you should attach additional REFLECTIVE MARKS. Then divide the reading shown by the number of REFLECTIVE MARKS to get the actual rpm reading.

4. MEMORY FUNCTION

4-1 Readings obtained during operation of the photo tachometer are automatically memorized. The following readings can be recalled from memory once the MEAS (measure) button is released:

1. Max value
2. Min value
3. Last value

Please see figure 1.

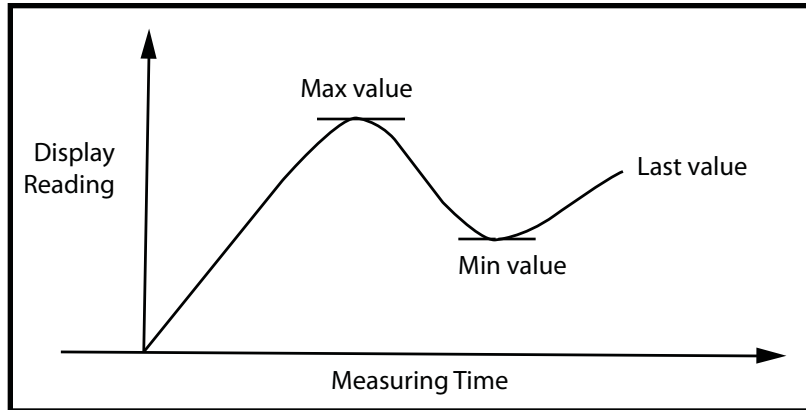


Figure 1

4-2 The memorized values can be recalled to the display as follows:

- A) Push the MEM button to display the maximum value. The letters MAX will appear on the display along with the maximum rpm.
- B) Push the MEM button again to display the minimum value. The letters MIN will appear on the display along with the minimum rpm.
- C) Push the MEM button again to display the last recorded value. The word LAST will appear on the display along with the last recorded rpm.

5. BATTERY REPLACEMENT

- A. When it is necessary to replace the battery (battery voltage less than 4.5V) $\boxed{+-}$ will appear on the display.
- B. Remove the screw, slide the battery cover away from the instrument and remove the battery.
- C. Install one 9V battery into the battery compartment.

WARNING: Permanent damage to the circuit may result from incorrect installation

- D. If the instrument is not to be used for extended periods of time, remove the battery to prevent corrosion.



WARRANTY

1 YEAR LIMITED WARRANTY

THIS WARRANTY AND CONFIRMED RECEIPT(S) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

PURCHASED FROM: _____

DATE PURCHASED: _____

INVOICE/RECEIPT NUMBER: _____

Your ATD-5582 is warranted for a period of 12 months from the original purchase date.

For a period of one (1) year from your purchase date, ATD Tools Inc. will repair or replace (at its option) without charge, your ATD product if it was purchased new and the product has failed due to a defect in material or workmanship which you experienced during normal use of the product. This limited warranty is your exclusive remedy.

To access the benefits of this warranty, contact your supplier, or point of sale directly. You may be advised to return the product under warranty, freight prepaid, to your supplier for warranty determination.

If this ATD product is altered, abused, misused, modified, or undergoes service by an unauthorized technician, your warranty will be void. We are not responsible for damage to ornamental designs you place on this ATD product and such ornamentation should not cover any warnings or instructions or they may void the warranty. This warranty does not cover scratches, superficial dents, and other abrasions to the paint finish that occur under normal use. It also does not cover normal wear items such as but not limited to brushes, batteries, drill bits, drill chucks, pads or blades.

Subject to the law in your state:

- (1) Your sole and exclusive remedy is repair or replacement of the defective product as described above.
- (2) ATD is not liable for any incidental damages, including but not limited to, lost profits and unforeseeable consequences.
- (3) The repair and replacement of this product under the express limited warranty described above is your exclusive remedy and is provided in lieu of all other warranties, express or implied. All other warranties, including implied warranties and warranties of merchantability or fitness for a particular purpose are disclaimed and, if disclaimer is prohibited, these warranties are limited to one year from your date of purchase of this product.

Some states' laws do not allow limited durations on certain implied warranties and some states' laws do not allow limitations on incidental or consequential damages. You should consult the law in your state to determine how your rights may vary.

NOTE: This one year warranty does not cover dead batteries and blown fuses.

For warranty and service coverage, please return this product to your dealer for processing and evaluation as described above OR, return it directly to:

Electronic Specialties, Inc.
139 Elizabeth Ln.
Genoa City, WI 53128
262-279-1400
WWW.ESITEST.COM

Defective units being returned to your dealer or to the factory should include proof of purchase date.
Any testers that do not function due to misuse or abuse will be subject to out of warranty service charges.