Digital Tachometer Gun
User Manual

Thank you for purchasing this digital tachometer. This meter provides a non-contact count of RPM measurements. With the assistance of the laser pointer beam you can obtain accurate measurements of rotating objects safely. We recommend that you read and follow the manual carefully before use.

Warning: Do not direct the laser pointer at an eye; look directly into the beam or indirectly off reflective surfaces. Safety eyewear is recommended.
Do not use the laser near explosive gases or in other potentially explosive areas.

Features:
- Mini Handheld Gun Type Design
- Wide Range of Measurement and High Resolution
- Automatic and Manual Measurement Selectable
- Data Record and Recall (60 readings)
- MAX/MIN/AVG Value Record Functions
- Record Time Interval Setup Function
- LCD with White Backlight
- Data Hold Function
- Auto and Manual Power Off
- Low Battery Indication

Specifications:
Measuring Range: 2.5-99999 RPM
Resolution: 0.1RPM, at 2.5~999.9RPM; 1RPM, at 1000~99,999 RPM
Accuracy: ±0.02%+1 digtal
Measuring Distance: 50~500 mm
Sampling Time: 0.5s (above 120RPM)
Data Storage Capacity: 60 Readings
Auto Power Off: After 20s
Operation Temperature: 0 to 50°C (32 to 122°F)
Operation Humidity: 10 to 90%RH
Storage Temperature: -10 to 60°C (14 to 140°F)
Storage Humidity: 10 to 75%RH
Dimension: 145*90*35mm
Weight: 120g (included average 9V battery)

Product description:

1. Laser output
2. Measuring button
3. LCD display
4. Product label
5. Backlight button(↓)
6. Power on/off button
7. Auto button(↑)
8. Max/Min/Avg button
9. Rec button
10. Battery cover
11. Reflective tape

LCD display

1. Measuring indicator
2. HOLD symbol
3. Laser symbol
4. Low battery indicator
5. Max/Min/Avg reading
6. Digital readout
7. Measuring unit
8. Record data quantity(Max 60 datas)
9. AUTO measuring indicator
10. Record mode symbol
11. Data recall mode

Operation:

1. Turning on and off your Meter
a. Press the **Power button** to turn on your meter.
After 10 sec without any operation the meter will automatically power off.*Press the **Power button** again to turn off the meter manually.*
b. Under auto measuring mode, the meter will work all the time until the battery runs out.

2. Measuring
a. Apply the photographic strip to the object being measured when the part is not in motion, and shade any other reflective surfaces.
b. When the item is rotating press the trigger and point the gun at the photographic tape using the laser beam as a guide and the reading should appear on your LCD. **CAUTION: Rotating objects can be dangerous. Use extreme care.**
c. Keep the measuring distance:50~500mm(as close as safely possible)
NOTE: Bright ambient light may interfere with the reflected light beam. Shading the target area may be necessary in some cases. USE IN A SHADED AREA OR OUT OF DIRECT SUNLIGHT FOR BEST RESULTS

3. Hold Function
This instrument automatically enters Hold Mode when not measuring. When you wish to hold a reading, you are measuring on the display release the measuring trigger, the meter will enter Hold Mode and the reading will freeze on the display.

4. Max/Min/Avg Value Measurement Function
Press **Max** Button once to choose Max (Maximum) reading, twice for Min (Minimum) reading, and a third time for Avg (Average) reading display modes. A forth Press of the Max Button will exit back to the normal display mode.
Max: When is this mode the meter will display the maximum value reading the meter reached in that test.
Min: When is this mode the meter will display the minimum value reading the meter reached in that test.
AVG: When is this mode the meter will display the average value reading the meter reached in that test.

5. Backlight Function
Press **Backlight Button** to turn on/off the backlight.

6. Auto Measuring Function
Press the **Auto Button** to enter Auto Measuring Mode. Press this button again to exit auto measuring mode.
Note. The laser will stay on permanently in this mode and there is no need to hold the Trigger Button

7. Record Function
Under Auto Measuring Mode press the **REC Button to** start recording measurements (max 60 data readings)
Press this button again to pause the recording.

8. Recording Measurement Time Interval Setup
Hold the REC Button and then turn on the meter to enter the mode of adjust record time interval between 1 to 99s
*Backlight button (↓) and Auto button (↑)
Turn off the meter to set

9. Recall Record Data
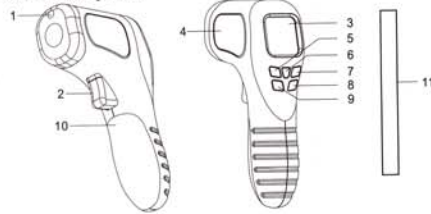Hold the Measuring Trigger then turn on the meter to enter recall data mode.
*Backlight button (↓) and Auto button (↑)

Battery Replacement:
If the meter does not power on as usual or the low battery icon appears on the LCD display, please replace the 9V battery as soon as possible.
Please see the below diagram for instructions on how to open the battery cover:

Press down here

Dispose of the battery in an environmentally safe and sound manner at a recycling point.
DO NOT DISPOSE OF IN YOUR BIN!

Trouble Shooting:
1. Power on but no display or the display disappears
  a. Check the battery is in place with good contact to the pins and the correct way round.
  b. Remove battery for one minute and re-install.
  c. Replace the battery.

2. Bright ambient light may interfere with the reflected light beam. Shading the target area may be necessary in some cases. USE IN A SHADED AREA OR OUT OF DIRECT SUNLIGHT FOR BEST RESULTS
CAUTION: Rotating objects can be dangerous. Use extreme care.

3. Keep the measuring distance: 50~500mm(as close as safely possible)

4. Do not direct the laser pointer at an eye; look directly into the beam or indirectly off reflective surfaces. Safety eyewear is recommended.
Do not use the laser near explosive gases or in other potentially explosive areas.

Warranty:
This meter has a one year warranty for a period of one year from date of purchase.
This warranty covers normal operation and does not cover batteries (including leaks), misuse, abuse, alteration, tampering, neglect, improper maintenance or improper calibration. Nor can the warranty be used as an excuse for a false claim simply because you have changed your mind after the initial 14 day period.

Proof of purchase is required for warranty repairs.