Prestige Counting Instruments Mechanical Tachometer

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Introduction:

- **Device Name**: Prestige Counting Instruments Mechanical Tachometer
- **Brand**: Prestige Counting Instruments Pvt. Ltd.
- **Type**: Handheld Mechanical Tachometer
- **Function**: Measures rotational speed (RPM) of machinery and rotating components
- **Industry Use**: Engineering, manufacturing, automotive, and scientific research

Prestige Counting Instruments Mechanical Tachometer

Historical:

- Developed for **precise speed measurement** of rotating equipment
- Used in **industrial and mechanical applications** before digital tachometers
- Commonly found in **factories, workshops, and calibration labs**
- **Mechanical tachometers** were widely used in the **20th century** before digital alternatives became popular

Specifications :

- **Measurement Range**: 300 - 1500 RPM (depends on attachment used)
- **Dial Display**: Analog scale for easy reading
- **Material**: Durable metal body with a protective carrying case
- **Power Source**: Fully mechanical, no electricity required
- **Certification**: Includes a Certificate of Test for accuracy verification

Features:

- **Accurate RPM measurement** without the need for power
- **Portable and compact design** for easy handling
- **Durable casing** for protection during industrial use
- **Multiple attachments** for different measurement applications
- **Comes with calibration certification** for precision assurance

Working Principle:

- The **tachometer's tip** is placed against a rotating shaft
- The **internal mechanical system** converts rotational motion into a readable dial output
- The **dial pointer** moves to indicate the RPM
- The **user can lock** the reading for further analysis
- The measurement is based on **mechanical gear movement and inertia**

Applications:

- **Manufacturing & Engineering**: Ensures accurate machine speeds
- **Automotive Industry**: Measures engine and motor RPMs
- **Research & Development**: Used in mechanical testing labs
- **Aviation & Aerospace**: Helps in propeller speed measurement

Links:

- https://www.smiths-instruments.co.uk/the-history-of-the-tachometer/
- https://prestigeagencies.com/tachometers/