REED

Model R7150

Contact / Non-Contact Tachometer with Laser

Instruction Manual

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Features

- Dual function unit with both contact and non-contact capabilities
- Provides fast and accurate RPM measurements of rotating objects and surface speed measurements MPM (meter per min) and FPM (feet per min)
- Laser provides improved accuracy at a greater distance
- Internal memory recalls min/max and last value
- Large LCD Display reverses depending on measurement mode
- Includes reflective tape, large and small cone tip adapters, funnel adapter, wheel adapter, batteries, and hard carrying case

Specifications

RPM Range (Contact):	0.5 to 19,999
RPM Range (Photo):	10 to 99,999
Surface Speed Range:	0.05 to 1,999.9 m/min
	0.2 to 6,560 ft/min
Resolution:	Photo: 0.1 RPM (≤999.9) / 1 RPM (≥1000)
	Contact: 0.1 RPM (≤999.9) / 1 RPM (≥1000)
	Surface: 0.01 m/min (≤99.9) / 0.1 m/min (≥100) / 0.1 ft/min (≤999.9) / 1 ft/min (≥1000)

Basic Accuracy:	±(0.05% + 1 dgt.)
Visible Indicator:	Yes (Laser)
Target Distance:	6.5ft (2000mm) (Photo)
Response Time:	<1 sec
Sampling Time:	Photo: 1 sec (over 60 RPM)
	Contact: 1 sec (over 6 RPM)
Display Size/Type:	5 Digit LCD Display
Auto shut-off:	Yes
Internal Memory:	Max, Min and Last
Laser Class:	Class II
Low Battery Indicator:	Yes
Power Supply:	4 x AA Batteries
Product Certifications:	CE
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	-4 to 140°F (-20 to 60°C)
Operating Humidity:	10-80% RH
Dimensions:	8.5 x 2.6 x 1.5” (215 x 65 x 38 mm)
Weight:	10.6oz (300g)
Optional accessories:	Replacement Measuring Wheel (AS-35) Replacement Cone Tip (CONE) Reflective Tape (RT100) Soft Carrying Case (CA-05A) Soft Carrying Case (C-820)

Instrument Description

1. Laser Beam
2. RPM Adapter
3. Display
4. Measure Button
5. Memory Call Button
6. Function Switch

Operating Procedures

Photo laser tachometer measuring procedure

1. Move the **Function Switch** to the **Photo RPM** position.
2. Apply reflective tape to the object being measured. Press the **Measure Button** and align the **Laser Beam** with the applied target. Verify that the **Monitor Indicator** provides a reading when the target passes through the field of view. Release the **Measure Button** when the reading stabilizes.

Note: If the measured RPM value is very low (ie: 50 RPM), we recommend attaching more **Reflective tape**.

Contact tachometer measuring procedure

RPM measurement

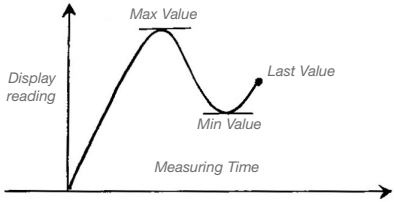
1. Move the **Function Switch** to the **Contact RPM** position.
2. Press the **Measure Button** and lightly pressing the **RPM Adapter** against the rotating axis. Release the **Measure Button** when the reading stabilizes.

Surface Speed Measurement

1. Move the **Function Switch** to the **m/min.** or **ft/min**. position.
2. Press the **Measure Button** and attach the surface speed test wheel to the detector. Release the **Measure Button** when the reading stabilizes.

Operation procedure for memory recall

1. **Last value**, **Max. value** and **min. value** are automatically stored in memory.
2. To recall measurements saved in memory:
   a. Push the **Memory Call Button** - To display the last value (**LA** and **the last value** will be displayed alternately).
   b. Push the **Memory Call Button** again - To display the maximum value (**UP** and **the max. value** will be displayed alternately).
   c. Push the **Memory Call Button** again - To display the minimum value (**dn** and **the min. value** will be displayed alternately).



Battery Replacement

- When the LCD displays **LO**, it is necessary to replace the batteries, however in-spec measurements may still be made for several hours after the low battery indicator appears.
- Open the Battery Cover, using a flat screwdriver or small coin.
- Replace batteries correctly and place the cover back on.

For service on this or any other REED product or information on other REED products, contact REED Instruments at info@reedinstruments.com

Notes