



CONTACT TACHOMETER

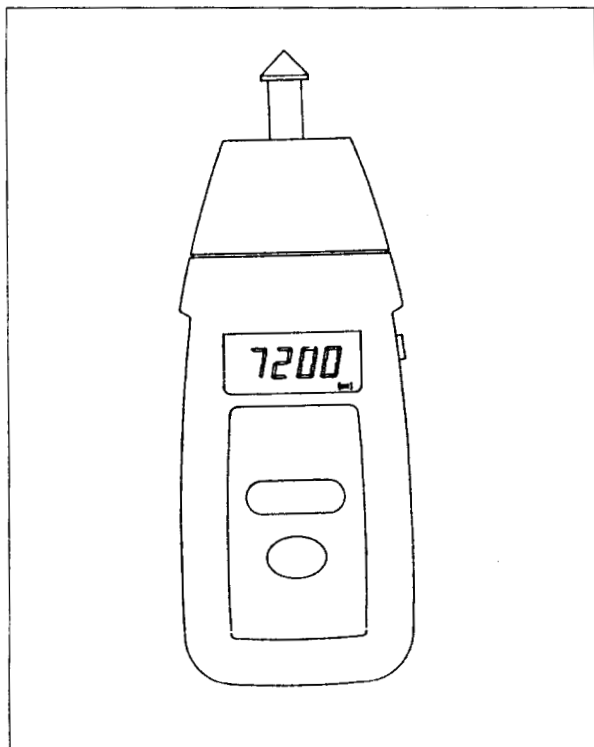


TABLE OF CONTENTS

1. FEATURES.....	1
2. SPECIFICATIONS.....	1
3. FRONT PANEL DESCRIPTION.....	3
3-1 Cone RPM Adapter.....	3
3-2 Target Indicator.....	3
3-3 Display.....	3
3-4 Operation Button.....	3
3-5 Function Switch.....	3
3-6 Memory Call Button.....	3
3-7 Funnel RPM adapter.....	3
3-8 Surface Speed Wheel.....	3
3-9 Battery Cover/Compartment.....	3
4. MEASURING PROCEDURE.....	4
4-1 RPM measurement.....	4
4-2 Surface Speed Measurement.....	4
5. MEMORY CALL BUTTON OPERATION.....	5
6. BATTERY REPLACEMENT.....	6

1. FEATURES

- * Wide measuring range from 5 to 100,000 RPM.
- * 0.1 RPM resolution for the measured value < 1000 RPM.
- * The last value, max., value, min. value will be stored into the memory automatically & can be obtained by pressing Memory Call Button.
- * High visible LCD display gives RPM reading exactly with no guessing or errors & saves battery energy.
- * This tachometer used the exclusive one chip Micro-Computer LSI circuit & crystal time base, offer the high accurate measurement & fast sampling time.
- * The use of durable, long lasting components, including a strong, light weight ABS plastic housing, assures almost maintenance free performance for many years.
- * The housing cabinet has been carefully shaped to fit comfortable in either hand.

2. SPECIFICATIONS

Display	5 digits, 10 mm (0.4") LCD (Liquid Crystal Display), with function annunciation.
Measurement & Range	CONTACT TACH. – 0.5 to 19,999 RPM. SURFACE SPEED (m/min.) : m/min. – 0.05 to 1,999.9 m/min. ft/min. – 0.2 to 6,560 ft/min.

Resolution	RPM: 0.1 RPM (< 1,000 RPM). 1 RPM (≥ 1,000 RPM).
	m/min.: 0.01m/min (< 100 m/min.) 0.1m/min (≥ 100 m/min.)
	ft/min.: 0.1 ft/min. (< 1,000 ft/mn.) 1 ft/min. (≥ 1,000 ft/mn.)
Accuracy (23 ± 5 ° C)	± (0.05% + 1 digit). <i>* Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.</i>
Time base	Quartz crystal, 4.194 MHz.
Circuit	Exclusive one—chip of microcomputer LSI circuit.
Operating Temp.	0 – 50 ° (32 – 122 °F).
Operating Humidity	Less than 80% R.H.
Memory	Last, Maximum, Minimum value.
Battery	4 x 1.5V AA (UM–3) battery.
Power Consumption	Approx. DC 10 mA.
Size	208 x 72 x 37 mm (8.2 x 2.8 x 1.5 inch)
Weight	280g (0.62 LB) /including battery.
Accessories Included	Carrying case..... 1 PC. RPM adapter (Cone)..... 1 PC. RPM adapter (Funnel)..... 1 PC. Surface speed test wheel..... 1 PC. Operation manual..... 1 PC.

3. FRONT PANEL DESCRIPTION

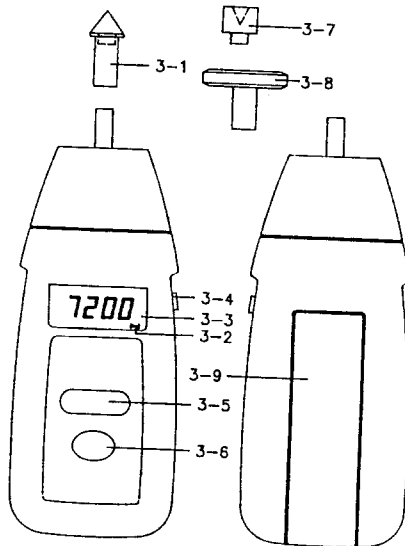


Fig. 1

- 3-1 Cone RPM Adapter
- 3-2 Target Indicator
- 3-3 Display
- 3-4 Operation Button
- 3-5 Function Switch
- 3-6 Memory Call Button
- 3-7 Funnel Rubber for RPM Adapter
- 3-8 Surface Speed Wheel
- 3-9 Battery Cover/Compartment

4. MEASURING PROCEDURE

4-1 RPM measurement

- 1) Select the " Function Switch " (3-5, Fig.1) to the " Contact RPM " position.
- 2) Depress the " Operation Button " (3-4, Fig. 1) & lightly pressing the " Cone RPM Adapter " (3-1, Fig. 1) against the center hole on the hole of the measured rotating axis. Release the " Operation Button " when the reading stabilizes (approx. 2 secs.).

Consideration :

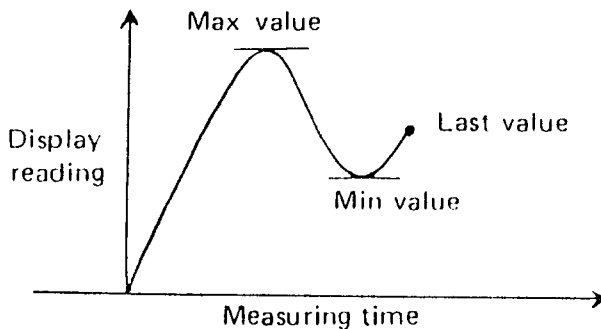
Making the contact RPM measurement according to different kind measured rotating axis, it may changed the rubber for RPM adapter from "Cone " type to "Funnel " type (3-7, Fig. 1).

4-2 Surface Speed Measurement

- 1) Select the " Function Switch " (3-5, Fig.1) to the " m/min. " or " ft/min. " position.
- 2) Change the " RPM Adapter " instead of the " Surface Speed Wheel " (3-8, Fig. 1).
- 3) Depress the " Operation Button " (3-4, Fig. 1) & simply attaching the surface speed test wheel to the detector. Release the " Measuring Button " when the reading stabilizes (approx. 2 secs.).

5. MEMORY CALL BUTTON OPERATION

- 1) The minimum, maximum and the last (final) readings are automatically stored during measurement. These values can be recalled anytime by pressing the "Memory Call Button" (3-6, Fig. 1).



- 2) To recall the stored value, follow those procedures as :

Release the "Operation Button" (3-4, Fig. 1) first.

- a) Press the "Memory Call Button" (3-6 Fig. 1) once to display the last reading. The symbol "LA" will appear on the display.
- b) Press the "Memory Call Button" (3-6 Fig. 1) once again to display the maximum value. The symbol "UP" will appear on the display.
- c) Press the "Memory Call Button" (3-6 Fig. 1) once more to display the minimum value. The symbol "dn" will appear on the display.

6. BATTERY REPLACEMENT

- 1) When the LCD display appear " LO ", it indicate a normal battery output of less than approx. 4.5 V. It is necessary to replace the battery, However in -spec measurement may still be made for several hours after low battery indicator appears before the instrument become inaccurate.
- 2) Open the " Battery Cover " (3-9. Fig 1), replace with new batteries correctly into the battery compartment and reinstate the cover.