

Digital Contact Hand Tachometer



- Reads directly in rpm, feet per minute, and meters per second
- Sturdy and rugged design
- High accuracy

DESCRIPTION

The Digital Contact Hand Tachometer is a microprocessor-controlled, precision speed-indicating instrument in a compact, lightweight, shock-proof plastic body; guarded against electromagnetic field influence and against normal electrostatic discharges from fabric, pulp and paper processing equipment.

The electronic system utilizes an autoranging, low-demand seven-segment LCD for battery conservation and is capable of measuring speeds of rotating objects to 19,999 rpm; in hundredths from 10.00 to 99.99, then in tenths from 100.0 to 999.9 and finally in whole numbers from 1000 to 19,999 rpm with ultra-precision accuracies as shown in the Specifications section.

APPLICATIONS

Surface speed measurements up to 10,000 feet per minute can be made by using the supplied 6-in. (152-mm) circumference wheel and reading directly. Optional wheels are available, with special setscrew locking hubs for additional security.

Place the driver tip or wheel in contact with the moving equipment, allow it to rotate evenly, depress the operating button and observe the digital display. The resulting measurement is displayed and continually updated within the specified sensing period. Release the operating button; the displayed measurement remains for one minute when the system shuts off and the measurement is stored in its memory.

FEATURES AND BENEFITS

Memory recall, low-battery indication and over/under indications are built-in operating features. However, the most vital feature is a system self-test that verifies fully functioning electronics by very briefly pressing the operating button and observing a full display of 88.8.8.8 with all indicators. The instrument reads directly and requires no calculations. Automatic switch-off saves batteries.

SPECIFICATIONS

Indicating Digits

4-1/2 digits (leading zero suppression). Readout locks and indicates UNDER at 10 rpm (5 ft/min, 1.5 m/min); OVER at 19,999 rpm (10,000 ft/min, 3048 m/min with adapter) and display blinks.

Display System

0.3-in (8-mm) seven segment LCD

Sensing Period (Gate Time)

0.5 second over 120 rpm. For lower speeds, longer cycle times are necessary, up to a maximum of 6 seconds at 10 rpm.

Accuracy

0.02% of measured value; ±1 digit

Power Source

Three alkaline, 1.5-volt AA batteries

Battery Life

Approximately 120 hours continuous duty

Low-Battery Signal

Indicator BAT appears over display

Memory Feature

Last measurement displayed approximately one minute then stored in memory. A single brief pressure on the operating button recalls that last measurement.

System Test

A second brief pressure on the operating button should produce a full display of indicators and 88.8.8.8 after approximately 3 seconds, verifying a correctly functioning electronic system.

Selection of Measurement

Selection between rpm and speed measurement is made by a slide switch above the LCD. Selection between ft/min and m/min is made by a DIP-switch, accessible by removing the battery compartment cover. Display indicators let user know which measurement is operating.

Temperature

Operating: 32 to 122° F (0 to 50° C)

Storage: -4 to +140° F (-20 to +60° C)

Dimensions

With Case

1.75 H x 6 W x 8.5 D in.

44 H x 152 W x 216 D mm

Without Case

1.3 H x 2.3 W x 5.4 D in.

33 H x 58.4 W x 137 D mm

Weight

With Case and Accessories

1.0 (0.45 kg)

Without Case

0.36 lb (0.16 kg)

ADDITIONAL SPECIFICATIONS

Measuring Ranges Autoranging (rpm)	Speed Measuring Ranges Linear Measurement with 6-in. Wheel (ft/min)	Measuring Resolution (rpm)	Measuring Resolution Supplied (ft/min)
10 to 99.99	5 to 99.99	±0.01	±0.01
100 to 999.9	100 to 999.9	±0.1	±0.1
1000 to 19,999	1000 to 10,000	±1.0	±1.0

ORDERING INFORMATION	
Item (Qty)	Cat. No.
Digital Contact Hand Tachometer	359985
Included Accessories	
Batteries, 1.5 volt AA, alkaline (3)	
Carrying case	T-29
Rubber tips, conical, small	S-4
Rubber tips, conical, large	S-8
Fiber disc wheel, 6 in. [152 mm]	S-1

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