

# Non-Contact & Contact TACHOMETER

## CDT-2000HD

### Measuring Range

*Non-Contact:* 1.00 - 99,999 rpm

*Contact:* 1.00 - 19,999 rpm

The CHECK•LINE® CDT-2000HD Combination Hand-Held Digital Tachometer combines the best features of both contact and non-contact models to accurately measure RPM, surface speed and length.

When using the non-contact mode, rotational speed (RPM) is measured using a visible beam of light. The CDT-2000HD can be up to 24 inches away from the small piece of reflective tape that is affixed to the rotating element. In the contact operating mode, the speed is sensed by directly contacting the rotating device using the cone tip or surface speed wheel supplied with the instrument.

The CDT-2000HD's rugged construction, portability and outstanding features make it an ideal choice for maintenance personnel, machine operators or others in a wide variety of machinery and material handling applications.



## FEATURES

- ▲ Measures speeds from 1.00 up to 99,999 rpm
- ▲ Accuracy of 0.02% with a resolution up to 0.01 rpm
- ▲ Built-in memory stores maximum, minimum, average and last reading for recall to the display
- ▲ Take accurate measurements from up to 24 inches away from rotating equipment
- ▲ NIST Certification included at no additional cost
- ▲ **NEW** - **Molded Rubber Shell** provides additional physical and environmental protection
- ▲ **NEW** - Now includes larger 6 inch circumference Surface Speed Wheel standard
- ▲ **NEW** - Can be set for use with 2 optional-sized surface speed wheels (12 in. or 10 cm circumference)

Specifications			
<b>Resolution</b>	.01 from 0 – 100 .1 from 100 – 1,000 1 from 1000 – 99,999	<b>Sensing Distance</b>	Up to 24 inches (60 cm)
<b>Accuracy</b>	± 0.02% of reading or ±1 digit	<b>Display Update Time</b>	0.5 seconds or one measuring period
<b>Display</b>	5-Digit LCD, 10mm high	<b>Auto Power Off</b>	After 30 seconds of non-use (minimum, maximum average, and last reading retained in memory)
<b>Decimal Point</b>	Automatic	<b>Battery Life</b>	40 hours continuous use (approx.) with alkaline batteries
<b>Memory System</b>	Maximum, minimum, average and last reading (retained in memory for the life of batteries)	<b>Battery Type</b>	2 AA (1.5 V) or rechargeable
<b>Measurement System</b>		<b>Weight</b>	6 ounces (170 grams)
<i>Non-Contact</i>	Visible LED light beam	<b>Housing Material</b>	ABS Plastic
<i>Contact</i>	Contact adapter	<b>Operating Temperature</b>	32 to 122° F (0 to 50° C)
<b>Engineering units</b>		<b>Storage Temperature</b>	- 4 to 158° F (-20 to 70° C)
<i>RPM</i>	RPM		
<i>Surface Speed</i>	Feet/min, inches/min and meters/min		
<i>Length</i>	Feet, inches, meters		

Measuring Ranges – rpm			
<b>Optical</b>	1 – 99,999 rpm		
<b>Mechanical</b>	1 – 99,999 rpm		
Measuring Ranges – speed			
<b>Wheel Size</b>	6"	12"	0.1 m
<i>m/min</i>	0.10–1524	0.40–609.6	0.10–1999
<i>ft/min</i>	0.40–5000	0.40–2000	0.40–6550
<i>in/min</i>	4.0–60.00	4.00–24.000	4.00–78.700
<i>m/sec</i>	0.10–25.40	0.10–10.16	0.10–33.30
<i>ft/sec</i>	0.10–83.33	0.10–33.33	0.10–109
Measuring Ranges – length			
0 – 99,999 m, / 0 – 99,999 ft / 0 – 99,999 in			

- Units of Measure Indicators** show the user-selected units of measure.
- Contact Indicator** shows if contact or non-contact operation is selected.
- Low Battery Indicator** alerts the operator if the batteries are low.
- On-Target Indicator** confirms that the measurements are reliable.
- Memory Indicators** are illuminated when the maximum, minimum, average and last readings are recalled to the display for viewing.



The CDT-2000HD is supplied as a complete kit including: Gauge, contact adapter, cone tip adapter, 6" circumference universal surface speed wheel, reflective tape, NIST-traceable calibration certificate, operating instructions and foam-fitted, hard-plastic carrying case.

**A Non-Contact Model, the CDT-1000HD is also available.**

## CHECK•LINE® – PRECISION QUALITY CONTROL INSTRUMENTS

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