

# Economical Handheld Digital Tachometer with RS232C Software\*

5 Digit LCD Display

Light Reflex Measurement Technology

Range 10.00 to 99,999 RPM

Measuring Distance 50 to 300 mm

Event Counter with Elapsed Time (HH:MM)

HHT-1502 Optional Contact Adaptor

Max/Min/Hold: True Average

Auto Range RPM

RS232 Interface for Model HHT-1501

Contact RPM and Circumferential Velocity (HHT-1502CA)

HHT-1500 Series



The HHT-1500 Series is an accurate economical, non-contact optical digital tachometer. All units come complete with reflective tape and carrying case. An optional contact adaptor, HHT-1502CA is easy to attach and converts the unit to mechanical measurement. Users affix a tape on the shaft to be measured. The tachometer measures the time between reflected pulses of light and calculates the RPM.

## Specifications

### Speed (Optical)

|         | Range          | Resolution     | Accuracy       |
|---------|----------------|----------------|----------------|
| RPM     | 10.00 ~ 99999  | 0.01/0.1/1     | 0.04% ± 2 dgts |
| rps(Hz) | 0.200 ~ 2000.0 | 0.001/0.01/0.1 | 0.04% ± 2 dgts |

### Speed (Contact)

|                                  | Range           | Resolution       | Accuracy       |
|----------------------------------|-----------------|------------------|----------------|
| RPM / ("/" symbolizes "Contact") | 10.00 to 29999  | 0.001/0.01/0.1/1 | 0.04% ± 2 dgts |
| m/min                            | 1.000 to 2999.9 | 0.001/0.01/0.1   | 0.04% ± 2 dgts |
| ft/min                           | 3.00 to 10000   | 0.001/0.01/0.1   | 0.04% ± 2 dgts |
| yard/min                         | 1.00 to 3000    | 0.001/0.01/0.1   | 0.04% ± 2 dgts |

## General Specifications

|                    |  |
|--------------------|--|
| External TTL Input | High > 4.5V (HHT-1501)                             |
| Display            | 5 digits 99999 counts                              |
| Sampling Rate      | 0.7 second (> 60 rpm)<br>> 1 second (10 to 60 rpm) |
| Measuring Distance | 50 to 300 mm (2 to 12")                            |
| Time Base          | 4.0 MHz Quartz Crystal                             |
| Range Selection    | Automatic  |
| Battery            | Four 1.5 V "AA" (included)                         |
| Auto Power-Off     | 30 minutes   |
| Operating Temp     | 0 to 50°C (32 to 122°F)                            |
| Size               | 72 L x 63 W x 36 mm D (6.8 x 2.5 x 1.5")           |
| Weight             | 190 g (6.7 oz.) (including battery)                |

HHT-1500  
shown  
actual size.



## Event Counter

| Range      | Max Input Frequency       |
|------------|---------------------------|
| 0 to 99999 | 10 KHz with 5% duty cycle |

\* HHT1501 only.  
Comes complete with carrying case, reflective tape, 4 "AA" alkaline batteries and operator's manual.  
**Ordering Example:**  
HHT-1501, digital tachometer with RS232C cable and software and HHT-1502CA, contact adaptor.

## To Order

| Model No.  | Description                                       |
|------------|---|
| HHT-1500   | Digital tachometer                                |
| HHT-1501   | Digital tachometer with RS232C cable and software |
| HHT-1502CA | Optional contact adaptor                          |