

HANDHELD DIGITAL TACHOMETER

HT-5100/5200

The compact HT-5000 series has a full compliment of features, including maximum hold and preset, and can make both contact-type and optical rpm measurements.



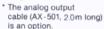
Just What You've Been Waiting



for in a Handheld Tachometer

Detect Trends in Rpm Variation Using a Chart Recorder.

An analog output is provided as standard. Simply connect this to a recorder to make a continuous, clear recording of rpm variations. Other convenient features include a tapped tripod mounting hole, a hold function on the measurement switch, and an optional AC adaptor (PB-703).





Non-Contact Line Speed Measurement



Simply set the diameter of a rotating shaft to make non-contact conveyor belt or other line speed measurements.

Pulse Output provides Tach Reference to **Analyzers and Recorders** Here's where the HT-5000 series really shows its stuff!



Pulse output (standard feature, HT-5200) can be used as a rotational reference signal to FFT spectrum analyzers for rpm scheduled data capture, order tracking analysis, etc....

Contact Adaptor is mounted)

r/min, r/s, m/min., count, and ms

* The pulse output cable (AX-1200, 1.5m) is an option

6 to 99999 r/min

0.10 to 999.99 r/s

0.6 to 9999.9m/min.

More Convenient Features

- · Both contact and non-contact measurements with a single unit
- Super wide-range (6 to 99.999 r/min) measurements (up to 20,000 r/min with the contact adaptor
- Maximum and minimum rpm value hold function
- Accumulated revolutions and period measurements are possible.
- The measurement value at the time at which the power is switched off can be recalled to the display from memory.
- An alarm is sounded when the set rpm value is exceeded.

Specifications

Detection method

Measurement units

Measurement range

(0.6 to 400.0m/min, with contact adaptor mounted) 0 to 99999 counts 0.6 to 9999.9ms (2.5 to 9999.9 ms, with contact adaptor mounted)

Reflective detection Display nent display

Maximum / minimum value measurement

Memory recall function Overrange indication

function

Alarm function

Measurement accuracy

20 to 300mm 5-digit liquid-crystal display with backlighting

1s (10s max, from 6 to 60r/min) 6 to 11,999 r/min: 12000 to 29999 r/min: ±2r/min 30000 to 49999 r/min: 50000 to 99999 r/min: 0.10 to 199.99 r/s: 200.00 to 499.99 r/s: ±0.02r/s ±0.04r/s 500.00 to 999.99 r/s:

The accuracy of tangential speed measurements depends upon the accuracy of rotational speed measurement.

Above values specified for non-contact measurement using

tripod mounting. For contact measurements, error caused by slippage may be added to the above values.

In the maximum/minimum value measurement mode, the maximum and minimum values occurring after start or reset are dis-

The last measured value, maximum value, and minimum value are held in memory for more than 10 minutes. When the measured value exceeds 99999/min, 999.99r/s, or 9999.9m/min, the display is fixed, and "OVER" appears in

Circumferential speed (line speed)

Optical (reflective) and contact (when the HT-0501

(6 to 20000r/min with contact adaptor mounted)

(0.10 to 400.00r/s with contact adaptor mounted)

± 10r/min ±0.06r/s

the upper left of the display.
(When using the contact adaptor, "OVER" is displayed at 20000r/min, 400.00r/s, or 2000.0m/min.) When the set rpm value is exceeded, an alarm is sounded and "H" is displayed on the LCD.

Setting range: 100 to 99900r/min (usable only with r/min or r/s

By inputting the diameter of a rotating shaft, non-contact line speed measurement is possible. Setting range: 1 to 999mm

Analog Output (HT-5100) Output voltage Fullscale value setting

Response time Resdution Zero drift Load resistance Setting accuracy

Pulse Output (HT-5200)

Output current Output impedance **General Specifications**

Power requirements

Battery life

Battery low alarm Operating temperature range

Dimensions and weight

Accessories

Options

0 to 1V (fullscale) 3 ranges (switch sel ectable) r/min: 1000, 10000, 100000 10.00, 1000.00 100.0, 1000.0, 10000.0 ±1.0% of fullscale 100ms 4mv ±0.05% of fullscale/°C ±0.05% of fullscale/°C 1kΩ min. ±0.5% of fullscale

HI +5 ±0.5 V (load resistance of 100kΩ or less) LO +0.5 V max. (sink current of 2 mA) Maximum sink current: 7mA at 0.7 V Approximately 50Ω

3 type AA batteries or 100/120/220/240VAC (using the optional PB -703 AC Adaptor) Approx. 40 hours continuous operation (when not using backlighting)
Approx. 10 hours continuous operation (when using backlighting)
When the battery voltage drops below approximately 3.3V, "BATT" appears in the display as a warning.

0 to +40°C -10 to +55°C

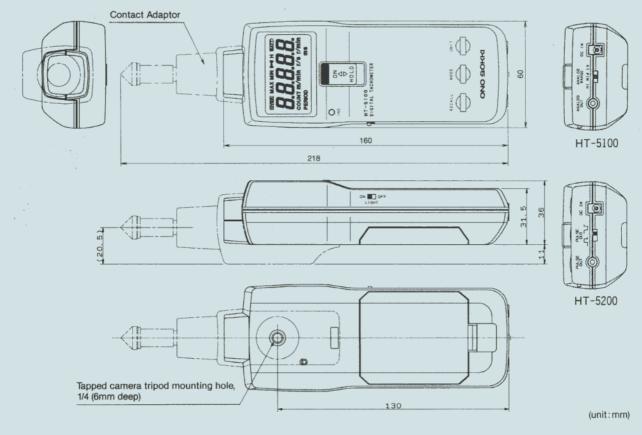
160(W) \times 36(H) \times 60(D)mm, approx. 200g 218(W) \times 47(H) \times 60(D)mm, approx. 260g (with contact adaptor mounted) HT-0501 Contact Adaptor KS-300 Rpm Measurement Contact Tip KS-200 Circumferential Ring HT-011 Reflective Marks (1 sheet) Miniature screwdriver (for rotary switch setting)

Carrying case PB-703 AC Adaptor

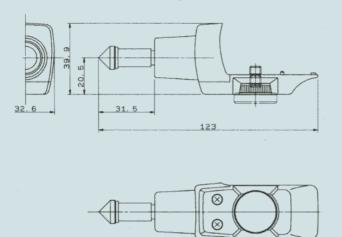
AX-501 Analog Output Cable (2.0m long) AX-1200 Pulse Output Cable (1.5m long)

Outer Dimensions

HT-5100 / HT-5200



HT-0501 (Contact Adaptor for the HT-5000)



(unit:mm)

Options (Sold Separately)

PB-703 AC Adaptor For 100V For 120V

> For 220V For 240V

AX-501 Analog Output Cable (2.0m long)

AX-1200 Pulse Output Cable (1.5m long)

KS-100 Circumferential Ring (for mm/s)

*Outer appearance and specifications are subject to change without prior notice.

HOME PAGE: http://www.onosokki.co.jp/English/english.htm

HT-011 Reflective Marks (10 sheets)

HT-0521 Stand Fixture HT-0522 Magnet Stand

Used as a Pair

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