

Gasoline & diesel engines, EV & HEV motors  
**Handheld Digital Tachometer**

# HT-6200

**External Sensor Input Type**



**ONOSOKKI**

# Handheld Digital Tachometer

# HT-6200

## Advanced model of the HT-6100

Not just measuring gasoline/diesel engine rotation but motor rotation of EV/HEV !

**All in one model for measuring gasoline/diesel engines and EV/HEV motors!**

Three types of output (analog, pulse and monitor) for recording and for tracking analysis of rotation.

## Features

### 1 Can be used with various sensors

Various types of rotation sensors can be connected.  
Rotation measurement of gasoline engines, diesel engines and motors can be performed with one tachometer.

### 2 Three outputs provided as standard

Analog output : For recording rotation speed  
Pulse output : For synchronous signal with rotation  
Monitor output : For checking detected signals.

### 3 Built-in peak-hold function

Max. and min. values can be displayed during measurement.

### 4 Built-in memory function

Up to 20 data can be stored.



## Specifications

<b>Object to be measured</b>	Engines, motors and rotating objects in general
<b>Display</b>	5-digit LCD with backlight (character height: 10.2 mm)
<b>Calculation method</b>	Periodic operation method
<b>Measurement time</b>	1 s+1 period
<b>Measurement accuracy</b>	Displayed value x (±0.02 %) ±1 count (Not including a quantization error) The measurement accuracy of the circumferential speed depends on the accuracy of rotation speed (r/min).
<b>Setup range of number of pulses (P/R)</b>	0.50 to 200.00(engine rotation measurement) 0.50 to 999.99(other than engine rotation measurement) (Can be set at intervals of 0.01)
<b>Peak-hold function</b>	Maximum value (MAX), Minimum value (MIN)
<b>Memory function</b>	Up to 20 data
<b>Over-range function</b>	The over-range warning (ERROR mark) is displayed when the measured value exceeds the display range.
<b>Rotation upper limit warning function</b>	The upper limit warning (↑ mark) is displayed when the rotation speed exceeds the preset upper limit value.
<b>Circumferential speed calculation function</b>	Calculates the circumferential speed from the preset diameter value (mm) and the measured rotation speed.
<b>Accumulation function</b>	Counts accumulated pulses of input signal
<b>Period measurement function</b>	Measures the input pulse period (When 1 second or less: average value of input pulse)
<b>Trigger level adjustment function</b>	Trigger level can be adjusted using a rotary dial at the right-hand side of the main unit.
<b>Connector</b>	φ2.5 sub-mini jack
<b>Analog output</b>	<b>Output content</b> Output to the display value of rotation speed <b>Output voltage</b> 0 to 1 V/0 to F.S. (F.S. can be specified.)

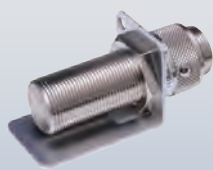
<b>Output section</b>	<b>Conversion method</b>	10-bit D/A conversion method
<b>Analog output</b>	<b>Linearity</b>	±1 %/F.S.
<b>Output update time</b>		within 50ms + 1 period
<b>Temperature stability</b>		± 0.05 % / F.S./ °C (ZERO & SPAN)
<b>Setting error</b>		±0.5 %/F.S.
<b>Load resistance</b>		100 kΩ or more
<b>Monitor output</b>	<b>Output content</b>	Detected signal of a sensor (available by switching from analog output.)
<b>Load resistance</b>		100 kΩ or more
<b>Pulse output</b>	<b>Output voltage</b>	High level: +4.5 V or more Low level : +0.5 V or less
<b>Output logic</b>		Positive logic pulse
<b>Load resistance</b>		100 kΩ or more
<b>General specifications</b>	<b>Power supply</b>	Size AAA battery (x 4) or exclusive AC adapter (PB-7090 sold separately)
<b>Continuous operating time</b>		16 hours or more (backlight OFF) 8 hours or more (backlight ON) *When alkaline batteries are used at 20 °C.
<b>Battery LOW display</b>		Lights up at about 4.4 V("LOW" will be displayed.
<b>Operating temperature range</b>		0 to +40 °C
<b>Storage temperature range</b>		-10 to +50 °C
<b>Outer dimensions</b>		47.5(W)×189.5(L)×66(D) mm
<b>Weight</b>		Approx. 280 g (including batteries)
<b>Accessories</b>		Size AAA battery x 4, carrying case x 1, Instruction manual x 1



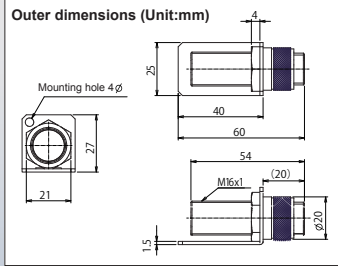
※ The measurement may not be performed normally depending on type of a motor, type of an engine or other reason. Please contact your nearest distributor for more details.

## Options

For measuring EV/HEV  
motor rotation  
OM-1200 (detector)  
OM-0102 (mounting fixture)



Detector with a mounting fixture



Motor/gasoline engine  
RPM detector  
OM-1200/1500



Electromagnetic  
rotation detector  
MP series



Ignition pulse detector  
(Primary side)  
IP-292



Ignition pulse detector  
(Secondary side)  
IP-296



Ignition pulse detector  
IP-3000A



Ignition pulse detector  
IP-3100



Engine vibration  
detector  
VP-202/1220



AC adapter  
PB-7090



## Main unit

HT-6200 Handheld Digital Tachometer

## Sensors (sold separately)

VP-202/1220 Engine vibration detector  
IP-292/296 Ignition pulse detector  
IP-3100/3000A Ignition pulse detector  
OM-1200/1500 Motor/gasoline engine RPM detector  
MP series Electromagnetic rotation detector

## Accessories (sold separately)

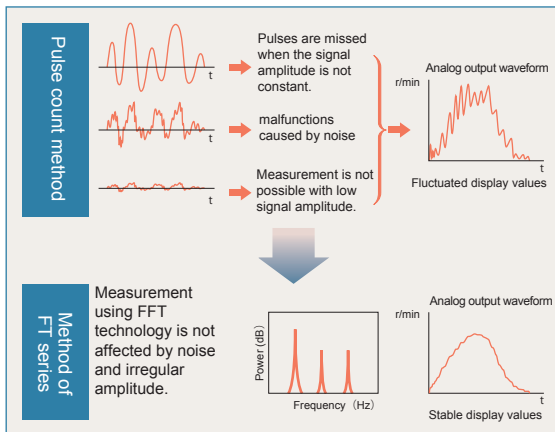
AX-501 Signal output cable  
(for analog and pulse output)  
2.5φ sub-mini plug to CO2 (BNC), 2m  
MX series Cable for electromagnetic rotation detector  
(for OM-1200, MP series)  
MX-005 5m  
MX-010 10m  
OM-0102 Mounting fixture for OM-1200  
(with 3 of adhesive sheet)  
PB-7090 AC adapter  
Input: 100 to 240V AC  
Output: 5.9V DC/3.5A  
(with AC power cable: AC100 to 120 V)

## For stable measurement High precision type the FT-7200 Advanced Handheld Tachometer

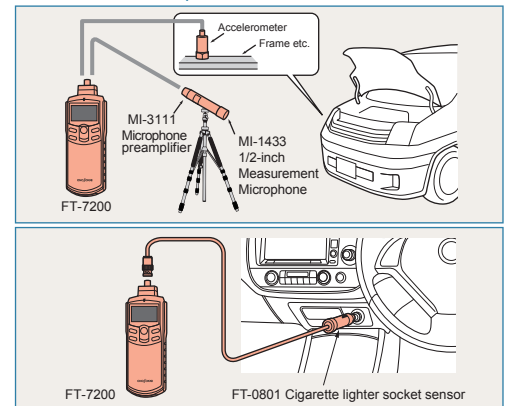


FT-7200

The FT-7200 is a handheld type tachometer which measures the rotation speed by performing frequency analysis using FFT calculation. This tachometer is useful for measurement of sensor signal with noise or small amplitude.



## Measurement examples



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