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

HT-6200
External Sensor Input Type
### Handheld Digital Tachometer HT-6200

**Features**

1. Can be used with various sensors
2. Three outputs provided as standard
3. Built-in peak-hold function
4. Built-in memory function

**Specifications**

<table>
<thead>
<tr>
<th>Object to be measured</th>
<th>Conversion method</th>
<th>Linear error</th>
<th>Setting error</th>
<th>Temperature stability</th>
<th>Counting error</th>
<th>Temperature range</th>
<th>Power supply</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engines, motors, and rotating objects in general</td>
<td>10-bit D/A conversion method</td>
<td>±1 % / 5 %</td>
<td>±0.5 %</td>
<td>±0.05 % / 5 % / 5 °C (ZERO &amp; SPAN)</td>
<td>±0.5 %</td>
<td>-30 °C to 50 °C</td>
<td>Type AAA battery (x 4) or exclusive AC adapter</td>
<td>36 x 163 x 57 mm</td>
</tr>
</tbody>
</table>

**Applications**

**Measuring rotation of gasoline engines**

- **Object to be measured**: Ignition coil, primary/secondary ignition cable, ECU rotation pulse (5V)
- **Applicable engine RPM detector**: IP-296/292/3100/3000A

**Measuring rotation of diesel engines**

- **Object to be measured**: Engine vibration detector: VP-1220

**Measuring rotation of EV/HEV**

- **Object to be measured**: Engine vibration detector: VP-1220

**Actual running test of HEV**

The above graph shows the rotation speed of a certain HEV (measured by the HT-6200), and the speed of HEV (measured by the LC-6100 GPS speedometer).
For stable measurement

High precision type the FT-7200 Advanced Handheld Tachometer

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.

- Preamplifier for fluctuated display values
- Measurement using FFT technology is not affected by noise and irregular amplitude.

Measurement examples

- Analog output waveform
- Measurement is not possible with low signal amplitude.
- Measurement is not affected by noise and irregular amplitude.

Options

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

Motor/go  
sine engine RPM detector
OM-1200

Electromagnetic rotation detector
MP series

Ignition pulse detector (Primary side)
IP-292

Ignition pulse detector (Secondary side)
IP-296

Ignition pulse detector
IP-3000A

Engine vibration detector
VP-1220

AC adapter
PB-7090

Main unit

HT-6200 Handheld Digital Tachometer

Sensors (sold separately)

- VP-1220 Engine vibration detector
- IP-292 Ignition pulse detector
- IP-296 Ignition pulse detector
- IP-3000A Ignition pulse detector
- IP-3100 Ignition pulse detector

OM-1200 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)

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