Diesel Engine Tachometer
GE-1400
For diesel engine measurement applications

Features

1. Measurement is made with an exclusive detector (sold separately)
   Only by clamping the CP-044 detector to a fuel injection pipe.

2. Three outputs— analog, monitor and pulse— provided as standard
   Use the analog output function to record the number of rotations, the monitor output function to check the sensor’s detection waveform, and the pulse output function to output rotation synchronization signals.

3. Large LCD with backlight
   (Character height: 10.2 mm)

4. Built-in memory function
   20 data (MAX.) can be saved to memory.

5. Trigger adjustment function provided

6. Can be mounted on a tripod
   The tachometer can be fixed to a tripod for continuous measurement.

Measurement method

Diesel engine fuel injection pipe
CP-044 (option)
GE-1400
Input connector

An example of engine rotation measurement by vibrations (SE-2500)

VP-201/1210
SE-2500

* Measurement of diesel engines can be performed with the combination of these two devices.
### Specifications

<table>
<thead>
<tr>
<th>Measurement function</th>
<th>Description of output function</th>
<th>Analog output</th>
<th>Monito output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output voltage</td>
<td>0 to 1 V to 5 V (FS can be specified)</td>
<td>Output update time 50ms x the time required for 1 period or less</td>
<td></td>
</tr>
<tr>
<td>Linearity</td>
<td>±1%/FS</td>
<td>Temperature-stability ±0.05%/5°C (span &amp; zero)</td>
<td></td>
</tr>
<tr>
<td>Setting error</td>
<td>±0.3%/FS</td>
<td>Piezoelectric element withstand compressive pressure 1,960 bar</td>
<td></td>
</tr>
<tr>
<td>Load resistance</td>
<td>At least 100 k</td>
<td>Measurement range 400 to 6000 r/min</td>
<td></td>
</tr>
<tr>
<td>Description of output function</td>
<td>The external sensor signal which was shaped to a waveform (for analog output for monitoring purpose)</td>
<td>Description of output function</td>
<td></td>
</tr>
<tr>
<td>Low level resistance</td>
<td>Up to +0.5 V</td>
<td>Output cable length Approx. 4.9 m</td>
<td></td>
</tr>
</tbody>
</table>

**General specifications**

- **Applicable engines**: Diesel engines
- **Detection method**: A piezoelectric element is used to detect pulsation at the time of fuel injection
- **Applicable pipe diameter**: ø4 to 8 mm
- **Piezoelectric element withstand compressive pressure**: 1,960 bar
- **Measurement range**: 400 to 6000 r/min
- **Operating temperature range**: 9 to +40°C
- **Weight**: Approx. 120 g
- **Output cable length**: Approx. 4.9 m

### Options (sold separately)

- **Diesel engine rotation detector CP-044**
- **AC adapter PB-7090**
- **Signal cable AX-501**
- **Magnetic stand/Stand jig HT-0522/0521A**
- **Tripod LA-0203C**

(Shown with tachometer mounted)

### Outer dimensions

(Unit: mm)

- **Height**: 160.5, 185.5, 230.5
- **Depth**: 64, 47, 47.5
- **Width**: 66.3, 51.3, 63.5

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**Note**: Please refer to an instruction manual for the operating procedures.

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*Outer appearance and specifications are subject to change without prior notice. URL: http://www.onosokki.co.jp/English/english.htm*