Gasoline Engine Tachometer

SE-1620

Simply attach an ignition pulse detector or one of our other compatible detectors to the engine to enable measurement of the number of revolutions of a gasoline engine. The inputs, outputs and input power supply are all isolated to ensure the output of analog and pulse signals with superior noise resistance and stability characteristics.

Compatible Detectors

IP-292
Ignition pulse detector

LG-916
Optic-fiber sensor/photocell sensor (reflection-type)

IP-296
Ignition pulse detector

OM-200
Ignition pulse detector

IP-3000
Ignition pulse detector

(IP-3000)

IP-202
Gasoline/diesel engine detector

VP-1220
(High sensitivity type)

VP-202
Gasoline/diesel engine detector

ONO SOKKI
**SE-1620 Gasoline Engine Tachometer**

**Description**
The SE-1620 is an engine tachometer that performs measurement of the number of revolutions of a gasoline engine by connecting an engine revolution sensor such as an ignition pulse detector. A 100-mm wide-angle meter is used for the display, and both analog output and pulse output functions are provided as standard.

**Measurement Ranges**
- 2-cycle: 1, 2 cylinders ; 500 to 20,000 r/min
- 3 cylinders ; 500 to 16,000 r/min
- 4 cylinders ; 500 to 12,000 r/min
- 4-cycle: 1 to 5 cylinders ; 500 to 20,000 r/min
- 6 cylinders ; 500 to 16,000 r/min
- 8 cylinders ; 500 to 12,000 r/min
- 10 cylinders ; 500 to 10,000 r/min
- 12 cylinders ; 500 to 8,000 r/min

**Display**
- Displaying meter : 100-mm wide-angle meter, Class 1.5
- Meter scale Double scale: 0 to 10,000 r/min or 0 to 20,000 r/min
- Scale printed in monochrome

**Input Section**
- Compatible detectors (Optional): IP-292 : Ignition pulse detector (For primary side cable of ignition coil)
- IP-296 : Ignition pulse detector (For secondary side cable of ignition coil)
- IP-3000 : Ignition pulse detector (Low sensitivity type)
- OM-200 : Ignition pulse detector (Electro-magnetic type)
- VP-202 : Gasoline/diesel engine detector (Low sensitivity type)
- VP-1220 : Gasoline/diesel engine detector (High sensitivity type)
- LG-916 (TTL signal input) : Photoelectric reflection type detector

**Applicable engines :** Gasoline engines
- 2-cycle: (1 to 4 cylinders)
- 4-cycle: (1 to 6, 8, 10, 12 cylinders)

**Input connectors:**
- Sensor input: BNC connector
- TTL input: 6-pin connector (R03RB6F, externally-supplied power supply; 12 V 100 mA)

**Input gain selector :** x1, x5, x10, x20, selectable

**Output Section**

**Analog Output**
- Output voltage : 0 to 10 V (In proportion to 0 to 10,000 r/min or 0 to 20,000 r/min)
- Output voltage setting accuracy : Zero; ±0.2%/FS
- Span; ±0.3%/FS
- Linearity : ±0.2%/FS at most
- Ripple : 250 mVp-p or less (at 500 r/min)
- Temperature coefficient : Zero; ±0.01%/FS/°C
- Span; ±0.015%/FS/°C
- Response : Approx. 20 ms
- Load resistance : At least 10 kΩ
- Output connector : R03-RB3F

**Pulse Output**
- Output waveform : Rectangular waveform
- Pulse width: Approx. 2 ms
- Output as 1 pulse/2 revolutions (1 pulse/revolution available as an option)
- Output voltage : Hi level; At least 4.5 V
- Lo level: Up to 0.5 V
- Load resistance : At least 10 kΩ
- Output connector : R03-RB3F

**General Specifications**
- Power supply : 12 V to 24 VDC
- Connector : RM12BRB-2P
- Current consumption : Approx. 470 mA (at 12 VDC)
- Operating temperature range : 0 to 40°C
- Storage temperature range : -10 to 60°C
- Operating humidity range : 80% RH max. (non-condensing)
- Storage humidity range : 80% RH max. (non-condensing)
- External dimensions : 221 (W) x 116 (H) x 150 (D) mm
- Weight : Approx. 1.3 kg

**Accessories**
- Analog output cable : 1.9 meter x 1 pc.
- Pulse output cable : 1.9 meter x 1 pc.
- Power cable : 3.4 meter x 1 pc.
- User's manual : 1 copy

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

**URL:** http://www.onosokki.co.jp/English/english.htm