

## Gasoline Engine Tachometers

# SE-2500

For gasoline engine measurement applications

# HT-6100

External sensor input type

For gasoline/diesel engines and general rotating objects



SE-2500



HT-6100



# SE-2500

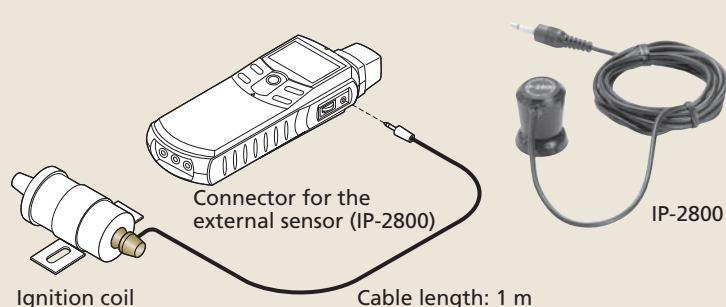
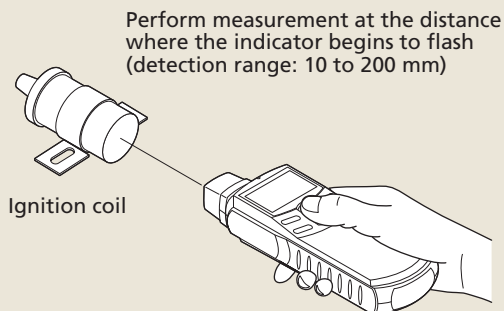
## Gasoline Engine Tachometer

For gasoline engine measurement applications

- 1 Built-in memory function**  
20 data (MAX) can be saved to memory.
- 2 Three outputs—analogue, monitor and pulse—provided as standard**  
Use the analogue 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 Capable of performing measurement at a distance of 1 m when the external sensor (IP-2800) is used.**
- 5 Can be mounted on a tripod**  
The tachometer can be fixed to a tripod for continuous measurement.
- 6 Measurement can be performed in 1 r/min or 0.01 r/s units.**



### Measurement method



Specifications			
Applicable engines	Gasoline engines, 2-cycle (1, 2, 3, 4 cylinders); 4-cycle (1, 2, 3, 4, 5, 6, 7, 8, 10, 12 cylinders)		
Detection method	Electromagnetic induction		
Detection distance	10 to 200 mm		
Object of measurement	Ignition coil		
Calculation method	Cycle calculation method		
Measurement time	Within 1 s + the time required for one cycle		
Display	5-digit LCD, with backlight (character height: 10.2 mm)		
Display update time	1 ±0.2 s		
Measurement units	r/min, r/s		
Measurement ranges	2-cycle	4-cycle	Number of rotations (r/min)
	—	1 cylinder	120 to 20000
	1 cylinder	2 cylinders	120 to 20000
	—	3 cylinders	120 to 20000
	2 cylinders	4 cylinders	120 to 20000
	—	5 cylinders	120 to 20000
	3 cylinders	6 cylinders	120 to 15000
	4 cylinders	8 cylinders	120 to 12000
	—	10 cylinders	120 to 10000
	—	12 cylinders	120 to 8000
(r/s is the numerical value obtained when the r/min measurement value is divided by 60)			
Measurement accuracy	Displayed value * x (±0.02%) ±1 count * The displayed value is the count value excluding figures after the decimal point.		
Measurement functions	Memory function	20 data (MAX)	
	Over-range function	The over-range alarm (ERROR mark) is displayed when the measured value exceeds the display range.	
	Rotation upper limit alarm function	The upper limit alarm (↑ mark) is displayed when the number of rotations exceeds the preset upper limit value.	
	Sensitivity adjustment function	A rotary dial at the right-hand side of the device is used to adjust the sensitivity.	

Output section	Description of output function	Output with respect to the displayed rotation values	
		Output voltage	0 to 1 V/0 to FS (FS is freely selectable)
Analog output	Conversion method	10-bit D/A conversion	
	Linearity	±1%/FS	
	Output update time	Within 50 ms + the time required for 1 cycle	
	Temperature stability	±0.05%/FS/°C (span & zero)	
	Setting error	±0.5%/FS	
	Load resistance	At least 100 kΩ	
	Monitor output	Description of output function	
		Analog output for monitoring purposes after waveform reshaping of the sensor signal	
Pulse output	Output voltage	Hi level: At least +4.5 V Lo level: Up to +0.5 V	
	Load resistance	At least 100 kΩ	
General specifications	Power source	Four AAA alkaline batteries or exclusive AC adapter (PB-7080, Option)	
	Battery life	At least 32 hours (when the backlight is OFF) At least 8 hours (when the backlight is ON)	
	Low battery alarm indicator	A low battery alarm (LOW mark) is displayed when the battery voltage falls below 4.4 V.	
	Operating temperature range	0 to 40°C	
	Storage temperature range	-10 to 50°C	
	Outer dimensions	198.5 (W) x 47.5 (H) x 66 (D) mm	
	Weight (including batteries)	Approx. 300 g	
	Accessories	Ignition detector (IP-2800) 1 AAA alkaline batteries 4 Carrying case 1	

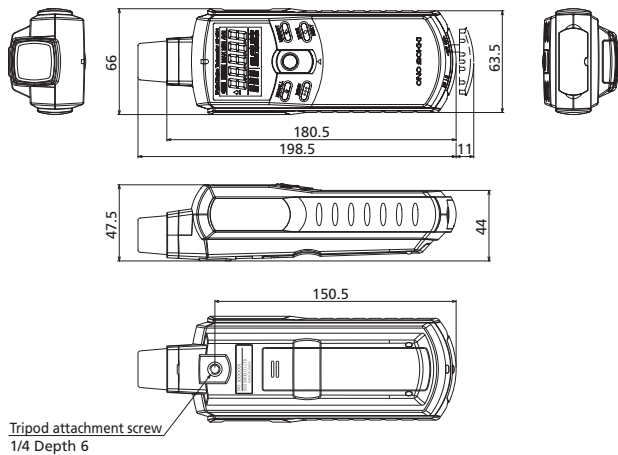
## Options (sold separately)

For the SE-2500	Engine rotation detector <b>VP-201</b> 		For the SE-2500 and HT-6100	AC adapter <b>PB-7080</b> 	Signal cable (For both analog and pulse output signals) <b>AX-501</b> 
	Ignition detector <b>IP-292</b> 	Ignition detector <b>IP-296</b> 		Magnetic stand/Stand jig <b>HT-0522/0521A</b>  (shown with tachometer mounted)	Tripod <b>LA-0203A</b> 
For the HT-6100	Ignition detector <b>IP-3000</b> 	Electromagnetic detector <b>OM-200</b> 			

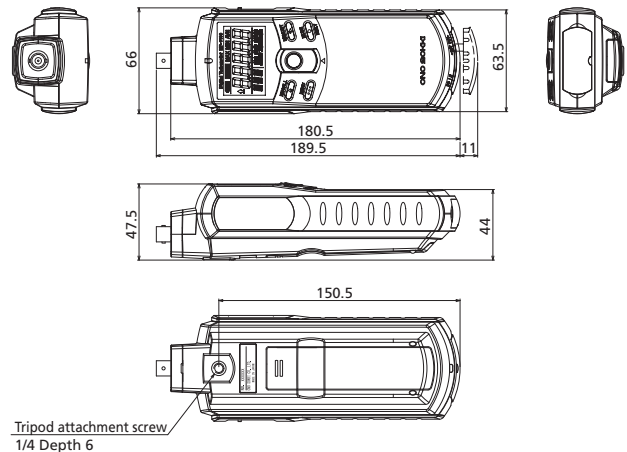
## External diagrams

(Unit: mm)

### ▼ SE-2500



### ▼ HT-6100



# ONOSOKKI

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

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

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