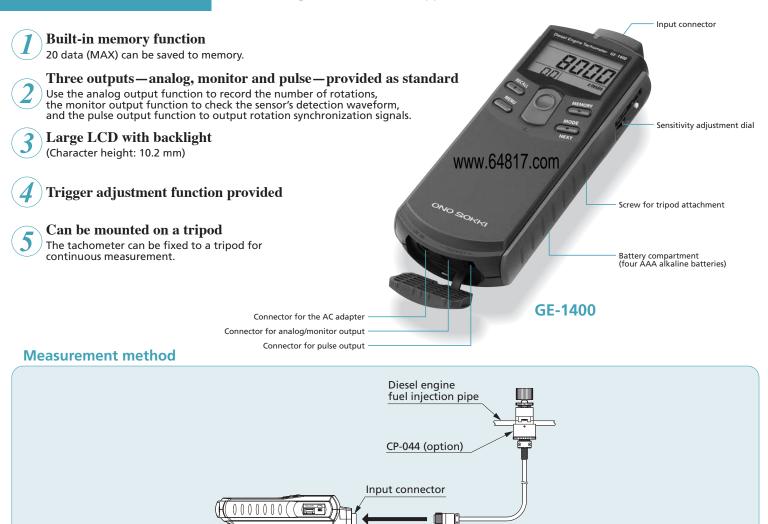
Diesel Engine Tachometers GE-1400 For diesel engine measurement applications HT-6100 External sensor input type For diesel engine and general rotating objects



ONO SOKKI

Diesel Engine Tachometer

For diesel engine measurement applications



Spe	cificati	ons			
Applic	able en	gines	Four-cycle diesel engines		
Detection method			Detection of the pulsation generated by the injection pipe at the time of fuel injection		
Compatible detector			CP-044 (option)		
Calculation method			Cycle calculation method		
Measu	irement	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 range		range	400 to 8000 r/min (r/s is the range when the r/min measurement value is divided by 60)		
Measurement accuracy		accuracy	Displayed value* x (±0.02%) ±1 count * The displayed value is the count value excluding figures after the decimal point.		
	Me	mory function	20 data (MAX)		
Measu		er-range function	The over-range alarm (ERROR mark) is displayed when the measured value exceeds the display range.		
ment functio		tation upper it alarm function	The upper limit alarm (the mark) is displayed when the number of rotations exceeds the preset upper limit value.		
		gger level adjustment	A rotary dial at the right-hand side of the device is used to adjust the trigger level.		
		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)		
		Conversion method	10-bit D/A conversion		
	Analog Linearity output Output update time		±1%/FS		
Output			Within 50 ms + the time required for 1 cycle		
section		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		
	output	Load resistance	At least 100 kΩ		

GE-1400

Output section	Pulse output	Output voltage	Hi level: At least +4.5 V Lo level: Up to +0.5 V		
		Output logic	Positive logic		
		Load resistance	At least 100 kΩ		
	Power source		Four AAA alkaline batteries or exclusive AC adapter (PB-7080, Option)		
	Battery life		At least 16 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.		
General specifi-	Operating temperature range		0 to 40°C		
cations	Storage temperature range		-10 to 50°C		
	Outer dimensions		186.5 (W) x 47.5 (H) x 66 (D) mm		
	Weight (including batteries)		Approx. 280 g		
	Accessories		Signal cable (AX-501) 1 AAA alkaline batteries 4 Carrying case 1		
Note: Place refer to the User's Manual for the operating procedure:					

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CP-044 Specifications *Op		otion (sold separately)			
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 withstan compressive pressure	d	1,960 bar			
Measurement range		400 to 6000 r/min			
Operating temperature range		0 to +80°C			
Weight		Approx. 120 g			
Output cable length		Approx. 4.9 m			



TEA

Injection pipe

Specifications Applicable engines			Diesel engine, general rotating objects		
			IP-292, IP-296, IP-3000, TTL signal output detectors		
Compatible detectors			Ignition coil, primary/secondary ignition cables, ECU rotation pulses (5-V)		
Object of measurement Calculation method			Cycle calculation method		
Measurement time			Within 1 s + the time required for one cycle		
			5-digit LCD, with backlight (character height: 10.2 mm)		
Display Display update time			1 ±0.2 s		
Measurement units			r/min (when the IP-292, IP-296 or IP-3000 detector has been selected) r/min, r/s, m/min, ms, COUNT (when a TTL signal output detector has been selected)		
			IP-292, IP-296, IP-3000	TTL signal output detector	
		r/min	120 to 20000	100 to 99999	
		r/s	_	1.66 to 999.99	
Measuren ranges	nent	m/min	_	0.3 to 9999.9	
runges		COUNT	—	0 to 99999	
		ms	—	0.6 to 300.0	
			*The number of pulses per rotation (0.5 to 200.0 P/R) is freely selectable.		
Measurement accuracy		ю	Displayed value* x (±0.02%) ±1 count * The displayed value is the count value excluding figures after the decimal point. The measurement accuracy of the line speed depends on the rotational (r/mn) accuracy.		
	Peak hold function		Maximum value (MAX), minimum value (MIN)		
	Memory	function	20 data (MAX)		
	Over-range function		The over-range alarm (ERROR mark) is displayed when the measured value exceeds the display range.		
Measure-	Rotation upper limit alarm function		The upper limit alarm († mark) is displayed when the number of rotations exceeds the preset upper limit value.		
ment functions	Line speed calculation function		Calculates the line speed from the preset diameter value (mm) and the measured number of rotations		
	Accumulating function		Provides a cumulative count of the input signal pulses		
	Cycle measurement function		Measures the input pulse cycle (however, when the cycle is less than 1 s, measures the mean value of the input pulses)		
	Trigger lev	vel adjustment	A rotary dial at the right-hand side of the device is used to adjust the trigger level.		

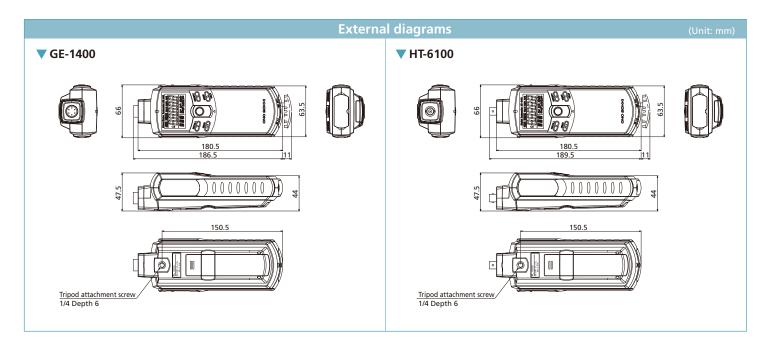
Solenoid injector

Output		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)		
		Conversion method	10-bit D/A conversion		
	Analog output	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		
section		Load resistance	At least 100 kΩ		
	Monitor output	Description of output function	Analog output for monitoring purposes after waveform reshaping of the sensor signal		
		Load resistance	At least 100 kΩ		
	Pulse output	Output voltage	Hi level: At least +4.5 V Lo level: Up to +0.5 V		
		Output logic	Positive logic		
		Load resistance	At least 100 kΩ		
	Power source		Four AAA alkaline batteries or exclusive AC adapter (PB-7080, Option)		
General specifi- cations	Battery life		At least 16 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		189.5 (W) x 47.5 (H) x 66 (D) mm		
	Weight (including batteries)		Approx. 280 g		
	Accessories		AAA alkaline batteries 4 Carrying case 1		

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Options (sold separately)						
For the GE-1400	Diesel engine rotation d CP-044	etector		AC adapter PB-7080	Signal cable (For both analog and pulse output signals) AX-501	
For the HT-6100	Ignition detector IP-292 Ignition detector IP-3000	Ignition detector IP-296	For the SE-2500 and HT-6100	Magnetic stand/Stand jig HT-0522/0521A	Tripod LA-0203A	

*Separate detectors are required for the GE-1400 and HT-6100.



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