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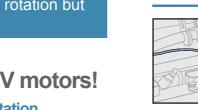
Handheld Digital Tachometer **HT-6200**

Advanced model of the HT-6100

Not just measuring gasoline/diesel engine rotation but motor rotation of EV/HEV !

All in one model for measuring gasoline/diesel engines and EV/HEV motors! Three types of output (analog, pulse and monitor) for recording and for tracking analysis of rotation.



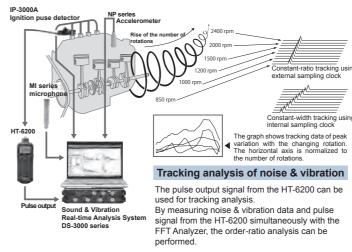


Applications

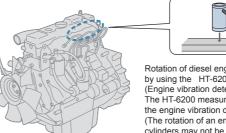
Measuring rotation of gasoline engines



The rotation of gasoline engines can be measured using the IP-3000A (Ignition pulse detector) and the HT-6200 (Handheld digital tachometer) The IP-3000A is attached on an ignition cable.



Measuring rotation of diesel engines



Rotation of diesel engines can be measured by using the HT-6200 and the VP-1220 (Engine vibration detector). The HT-6200 measures engine rotation using the engine vibration detected by the VP-1220. (The rotation of an engine with 6 or more cylinders may not be measured.)

Specifications

Object to be measured			Engines, motors and rotating objects in general		
Display			5-digit LCD with backlight (character height: 10.2 mm)		
Calculation method			Periodic operation method		
Measurement time			1 s+1 period		
Measurement accuracy			Displayed value x (±0.02 %) ±1 count (Not including a quantization error) The measurement accuracy of the circumferential speed depends on the accuracy of rotation speed (r/min)		
Setup range of number of pulses (P/R)			0.50 to 200.00(engine rotation measurement) 0.50 to 999.99(other than engine rotation measurement (Can be set at intervals of 0.01)		
	Peak-hold function		Maximum value (MAX), Minimum value (MIN)		
	Memory function		Up to 20 data		
Mea	Over-range function		The over-range warning (ERROR mark) is displayed when the measured value exceeds the display range.		
Measurement function	Rotation upper limit warning function		The upper limit warning (↑ mark) is displayed when th rotation speed exceeds the preset upper limit value.		
ment	Circumferential speed calculation function		Calculates the circumferential speed from the preset diameter value (mm) and the measured rotation spee		
fun	Accumulation function		Counts acumulated pulses of input signal		
oction	Period measurement function		Measures the input pulse period (When 1 second or less: average value of input pulse		
	Trigger level adjustment function		Trigger level can be adjusted using a rotary dial at thright-hand side of the main unit.		
se O	Connector		φ2.5 sub-mini jack		
Output	Analog Output content		Output to the display value of rotation speed		
n H	output	Output voltage	0 to 1 V/0 to F.S. (F.S. can be specified.)		

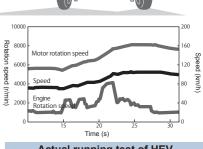
Output section		Conversion method	10-bit D/A conversion method	
	Analog	Linearity	±1 %/F.S.	
		Output update time	within 50ms + 1 period	
	e.	Temperature stability	± 0.05 % / F.S./ °C (ZERO & SPAN)	
	output	Setting error	±0.5 %/F.S.	
	-	Load resistance	100 kΩ or more	
	Monitor	Output content	Detected signal of a sensor (available by switching from analog output.)	
	독일	Load resistance	100 kΩ or more	
	Pulse output	Output voltage	High level: +4.5 V or more Low level : +0.5 V or less	
	out	Output logic	Positive logic pulse	
	put	Load resistance	100 kΩ or more	
General specificati	Po	wer supply	Size AAA battery (x 4) or exclusive AC adapter (PB-7090 sold separately)	
	Co tim	ntinuous operating le	16 hours or more (backlight OFF) 8 hours or more (backlight ON) *When alkaline batteries are used at 20 °C.	
	Bat	ttery LOW display	Lights up at about 4.4 V("LOW" will be displayed.	
	Op ran	erating temperature	0 to +40 °C	
	Sto ran	orage temperature ige	-10 to +50 °C	
n	Ou	ter dimensions	47.5(W)×189.5(L)×66(D) mm	
	We	ight	Approx. 280 g (including batteries)	
	Ac	cessories	Size AAA battery x 4, carrying case x 1, Instruction manual x 1	

	Gasoline engine	Diesel engine	Motor (EV, HEV)	Rotating object in general		
Applicable detector	Ignition pulse detector: IP-296/292/3100/3000A Motor/gasoline engine RPM detector: OM-1200/1500 Engine vibration detector:VP-202/1220		Motor/gasoline engine RPM detector: OM-1200/1500	Electromagnetic rotation detector MP-900/9000 series		
Object to be measured	Ignition coil, primary/secondary ignition cables ECU rotation pulse (5V) Cylinder-head of an engine (When using the VP-202/1220)	•Cylinder-head of an engine (when using the VP-202/1220)	• Motor	Rotation detection gear		
	Rotation measurement of gasoline/diesel engines Rotation measurement other than engines					
		r gasonne/dieser engines	0			
leasurement Init	r/min(rotation speed)		r/min, r/s (rotation speed), m/min (circumferential speed), ms (period), COUNT (accumulated count)			
nput frequency ange	1 to 1666.67 Hz		3.33 to 1666.67 Hz			
Maximum neasurement /alue	20,000 r/min The maximum rotation speed is 20,000 pulses per one rotation (P/R).	r/min regardless of the number of	99999 r/min (P/R=1), 999.99 r/s (P/R=1) 9999.9 m/min (diameter =100 mm), 300 (ms), 99999 (COUNT) The maximum value varies depending on the number of pulses per one rotation			

* The measurement range may be changed depending on the sensor installation position or type of motor when the motor rotation is measured using the OM-1200. * The measurement may not be performed normally depending on type of a motor, type of an engine or other reason. Please contact your nearest distributor for more details

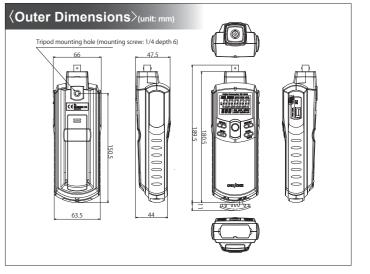
Measuring motor rotation of EV/HEV

- The OM-1200 (Motor/gasoline engine RPM detector) detects the magnetic flux leakage from a motor and enables rotation measurement of EV/HEV. Just attach the sensor to the outside of the motor to measure rotation No. processing such as hole drilling is required.
- The OM-1200 is installed perpendicularly to the rotating shaft of the motor. It needs to set the number of poles
- (number of pulses P/R) for the HT-6200.



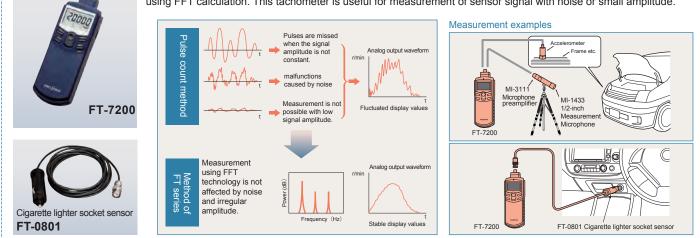
Actual running test of HEV

The above graph shows the rotation speed of a motor and an engine in HEV (measured by two HT-6200's), and the speed of HEV (measured by the LC-8100 GPS speedometer).



Options





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

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