

Handheld Digital Tachometer  
(High Rotational Speed Measurement Model)

**HR-6800**



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\*The photograph shows the HR-6800 used in combination with the MP-5350 (sold separately).

**MP-5350**  
Electromagnetic rotation detector

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**ONO SOKKI**



# Non-contact measurement of the rotational speed of high-speed rotating objects up to a maximum of 999,990 r/min!!

## Features

- 1

**High-speed rotation measurement**  
100 to 999,990 r/min
- 2

**Built-in memory function**  
Up to a maximum of 20 data can be saved to memory.
- 3

**Both analog and pulse outputs provided as standard**  
Used for recording rotational speeds and as rotation synchronization signals
- 4

**Built-in peak hold function**  
The maximum and minimum values can be displayed during measurement.
- 5

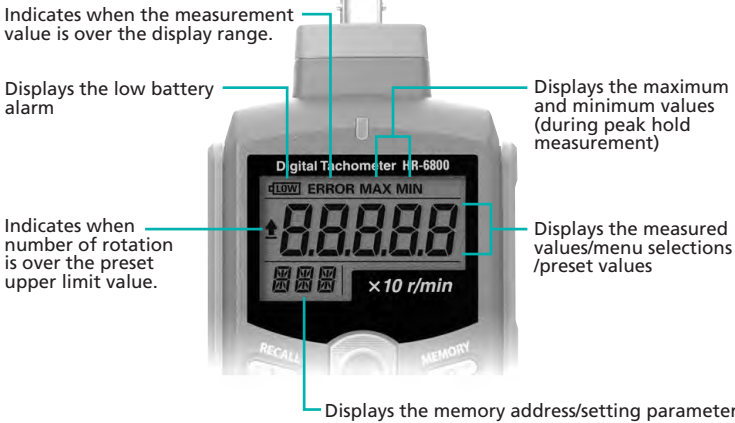
**Large LCD with backlight**



**Tripod mounting adapter**

The MI-0301 adapter (provided with the HR-6800) enables MP-5350 to be mounted on a tripod. (The tripod is sold separately.)

### Easy-to-read, large LCD (with backlight)



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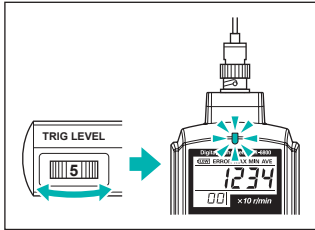


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Battery compartment  
(Four AAA alkaline batteries)

Screw for tripod attachment

Trigger level adjustment dial

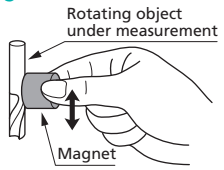


Type A/B selection switch  
Used to select the type according to the rotational speed range

Selected type	RANGE	Rotational speed range
Type A	Hi	10,000 to 999,990 r/min
	Lo	100 to 50,000 r/min
Type B	—	200,000 to 999,990 r/min

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

### Magnetization method



Note: Be sure to magnetize the target measurement object before starting measurement.

### HR-6800 Specifications

Target measurement objects	Rotating objects used in dentistry, rotating objects used in texturizing machine, rotating objects used in high-speed machine tools Note: Target measurement objects must be magnetized.		
Display	Large-size 5-digit LCD (Character height: 10.2 mm)		
Measurement time	Within 50 ms + the time required for 10 input signal cycles		
Display refresh rate	Approx. 1 second or 0.5 second, selectable		
Measurement unit	10 r/min (rotational speed)		
Rotational speed measurement range	Selected type	RANGE	Rotational speed range
	Type A	Hi	10,000 to 999,990 r/min
		Lo	100 to 50,000 r/min
	Type B	—	200,000 to 999,990 r/min
	Note: When the number of pulses setting is "1".		
Measurement accuracy	Displayed value x (±0.02%) ±1 count		
Peak hold function	Maximum value (MAX), minimum value (MIN)		
Memory function	Up to a maximum of 20 data		
Over-range display	An "ERROR" mark is displayed when the measured value exceeds the measurement range.		
Rotation upper limit alarm function	An upper limit alarm mark (⚡ mark) is displayed when the rotational speed exceeds the preset upper limit value.		
Analog output	Output in proportional to the displayed rotational speed values. Output voltage: 0 to 1V/0 to F.S. (F.S. is specified by user.) Output update time: Within 50 ms + the time required for 10 input signal cycles		
Monitor output	Analog output after the sensor signal waveform has been shaped. (prior to pulse waveform conversion)		
Pulse output	One pulse per signal detected Output voltage: Hi level; At least 4.5 V Lo level; Up to 0.5 V		
Power source	Four AAA-type batteries (1.5 V) or exclusive AC adapter (PB-7080, sold separately)		
Battery life	Approx. 13 hours (when the backlight is OFF.) Approx. 8 hours (when the backlight is ON.) (when alkaline batteries are used at 20°C)		
Operating temperature	0 to +40°C		
Storage temperature	-10 to +50°C		
Outer dimensions	66 (W) x 189.5 (L) x 47.5 (D) mm		
Weight	Approx. 280 g (including the batteries)		
Accessories	AAA-type batteries	4 pieces	
	Tripod mounting adapter (MI-0301)	1 piece	
	Carrying case	1 piece	

### MP-5350 Specifications

Detection method	Electromagnetic induction
Connection cable (provided as standard)	1-m length (with a BNC connector at both ends)
Operating temperature	0 to +40°C
Storage temperature	-10 to +50°C
Outer dimensions	107 x φ14 mm
Weight	Approx. 50 g (excluding signal cable)

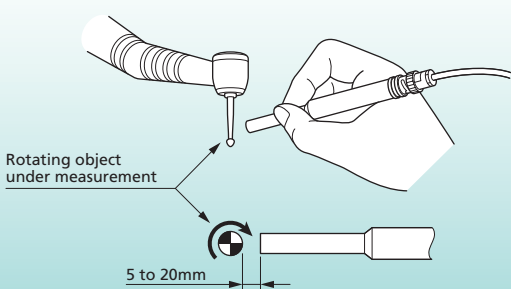
Connector for the AC adapter

Connector for analog output

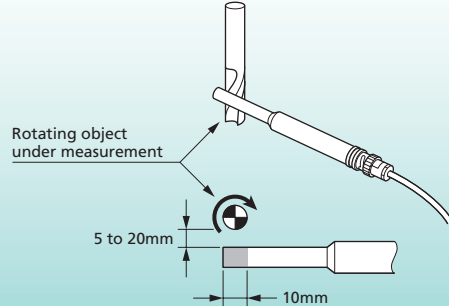
Connector for pulse output



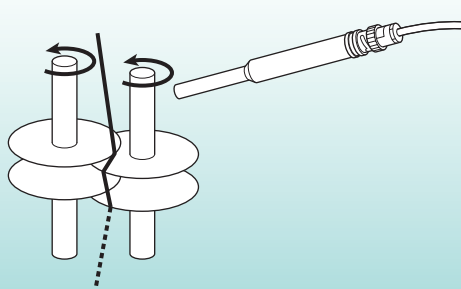
### Measuring the rotational speed of a dental handpiece or similar object



### Measuring the rotational speed of an end mill or drill



### Measuring the rotational speed of a yarn texturizing machine



## Options (sold separately)

AC adapter  
PB-7080



Signal cable  
AX-501



Magnetic stand/Stand jig  
HT-0522/0521A



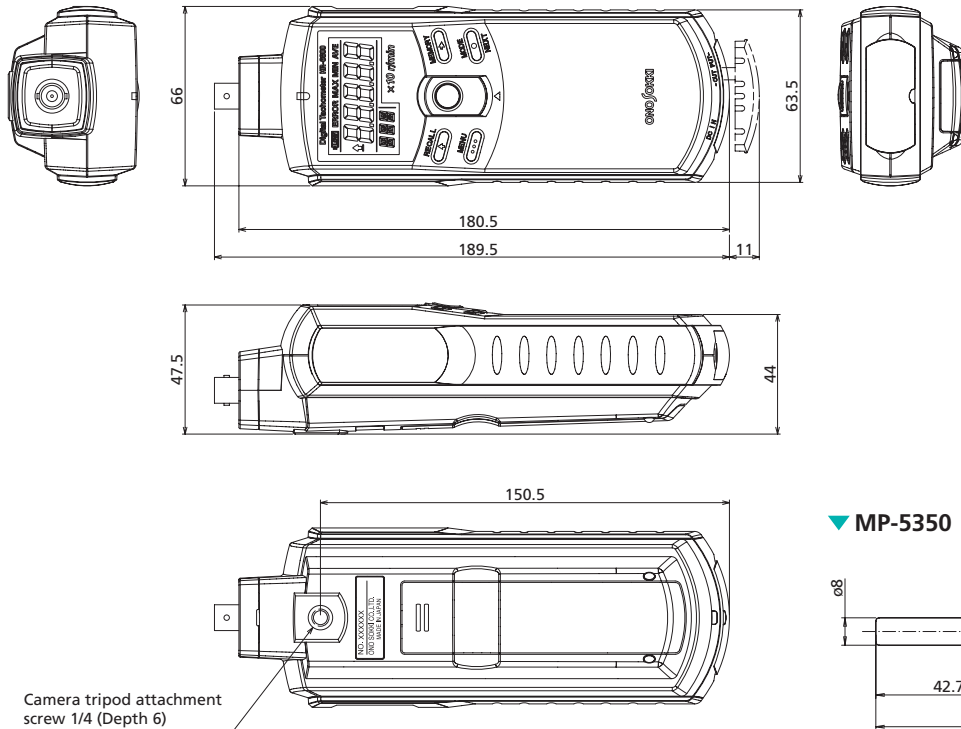
Tripod  
LA-0203B



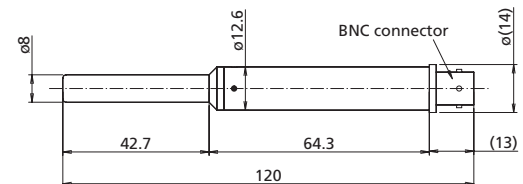
## External drawing

(Unit: mm)

### ▼ HR-6800



### ▼ MP-5350



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