

# DIGI -VIBRO 手持振動計

想像振動量測就像使用三用電表一樣簡單嗎？

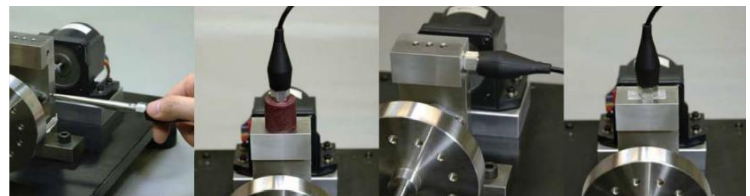
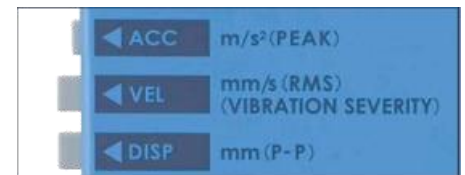
日本振動技術大廠 SHOWA 的 DIGI-VIBRO 系列手持振動計，讓您省去昂貴、複雜的設備以及煩瑣的事前準備，隨時帶著走、想量就量，在設備發生難以挽回的故障前，提前預知設備的狀況。

另外，您是否對設備振動的程度難以判斷？由於 DIGI-VIBRO 合乎 ISO 10816-1 的要求，工程人員可藉由 ISO 10816-1 的量表，來判斷各種不同機械設備的振動程度，進而安排不同的處置。



## 特色

1. 體積小，易於攜帶。
2. 操作簡單，容易判讀。
3. 具備加速度、速度、位移，三種量測模式。
4. 符合 ISO 10816-1 振動量測要求，提供具體判斷依據。
5. 感測器固定方式多樣且快速。
6. 100%日本製造。
7. 價格低廉。
8. 具備動態信號輸出，可搭配記錄器、頻譜分析儀進行資料擷取與分析。



RMS value of vibration velocity (mm/s)	ISO 10816-1			
	Class 1	Class 2	Class 3	Class 4
0.71 mm/s	A 0.71 mm/s	A	A	
1.12 mm/s	B	1.12 mm/s		A
1.8 mm/s	1.8 mm/s	B	1.8 mm/s	
2.8 mm/s	C	2.8 mm/s	B	2.8 mm/s
4.5 mm/s	4.5 mm/s	C	4.5 mm/s	B
7.1 mm/s		7.1 mm/s	C	7.1 mm/s
11.2 mm/s	D		11.2 mm/s	C
18 mm/s		D	D	18 mm/s

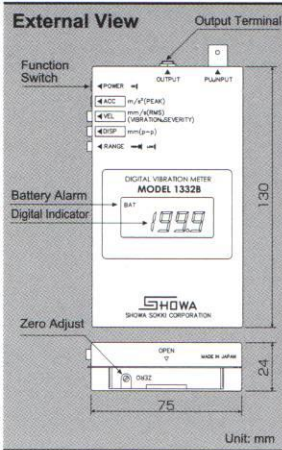
### Machine groups

Class 1	Individual parts of engines or machines (typically electric motors of up to 15 kW) built in as parts of complete machines.
Class 2	Middle scale machines having no particular base (typically electric motors of 15 kW to 75 kW) and engines or machines (300 kW maximum) mounted on a rigid base.
Class 3	Large scale generating machinery or rotating machines mounted on a rigid base.
Class 4	Large scale generating machinery or rotating machines mounted on a comparatively soft rigid base (for example, turbo generator sets and gas turbines of output of 10 MW minimum).

### Evaluation zones

Zone A	Vibration zone including vibration values of a new installed machine (Good)
Zone B	Vibration zone in which a machine can run long without any limitation (Acceptable)
Zone C	Vibration zone in which a machine cannot be expected to run long (Unsatisfactory)
Zone D	Vibration zone in which a machine may be damaged (Unacceptable)

# DIGI - VIBRO 手持振動計



**Standard type**  
Has a standard measuring range. Best suitable for general, universal measurement.



**Large input type**  
Provides the acceleration and velocity measuring ranges of 10 times those for the Standard type. Best suitable for a large vibration measurement.



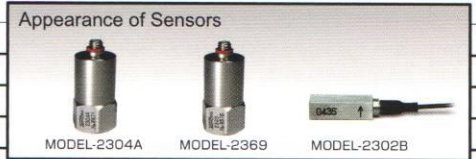
**High resolution type**  
Has the resolution of 10 times the one for the Standard type. Best suitable for micro vibration measurement.



**Lightweight sensor type**  
Uses a small lightweight type sensor weighing 1.3 g. Best suitable for vibration measurement of small objects.



Model		1332B	1332B-01H	1332B-01L	1332B-00F
Acceleration measuring range	Hi (Peak)	0.1 to 199.9 m/s <sup>2</sup>	1 to 1999 m/s <sup>2</sup>	0.01 to 19.99 m/s <sup>2</sup>	0.1 to 199.9 m/s <sup>2</sup>
	Lo (Peak)	0.01 to 19.99 m/s <sup>2</sup>	0.1 to 199.9 m/s <sup>2</sup>	0.001 to 1.999 m/s <sup>2</sup>	0.01 to 19.99 m/s <sup>2</sup>
Velocity measuring range	Hi (RMS)	0.1 to 199.9 mm/s	1 to 1999 mm/s	0.01 to 19.99 mm/s	0.1 to 199.9 mm/s
	Lo (RMS)	0.01 to 19.99 mm/s	0.1 to 199.9 mm/s	0.001 to 1.999 mm/s	0.01 to 19.99 mm/s
Displacement measuring range	Hi (P-P)	0.01 to 19.99 mm	0.01 to 19.99 mm	1 to 1999 μm	0.01 to 19.99 mm
	Lo (P-P)	0.001 to 1.999 mm	0.001 to 1.999 mm	0.1 to 199.9 μm	0.001 to 1.999 mm
Frequency range	Acceleration	5 to 5,000 Hz (±1 dB), 5 to 10,000 Hz (±3 dB)		5 to 5,000 Hz (±1dB)	5 to 1,000 Hz (±3dB)
	Velocity	10 to 1,000 Hz (complies with ISO 2954 - Requirements for instruments for measuring vibration severity)			10 to 1,000 Hz (±3dB)
	Displacement	10 to 1,000 Hz (±1 dB)			10 to 1,000 Hz (±3dB)
Measurement accuracy	Acceleration	±3%±1 digit			
	Velocity	±5%±1 digit			
	Displacement	±5%±1 digit			
Temperature range		Sensor: -20°C to +110°C; Amplifier: -10°C to +50°C			
AC output		±2V (full scale)			
Power supply		006P (9V), 1 pc, continuously operable for 30 hours or more			
Dimensions & mass (main unit)		75 (W) x 130 (H) x 24 (D) mm Approx. 230 g			
Sensor		MODEL-2304A	MODEL-2304A	MODEL-2369	MODEL-2302B



Note: Upper-limit frequencies for velocity and displacement are limited by the acceleration.

## Configuration of DIGI-VIBRO MODEL-1332B Standard type

- Main unit, MODEL-1332B, 1 pc
- L contact pin, LC-90, 1 pc
- Shoulder case, 1 pc
- Piezoelectric acceleration sensor, MODEL-2304A, 1 pc
- Magnet, MG-1, 1 pc
- Operation manual, 1 copy
- Low noise cable (1.5 m), LNC-3F-1.5, 1 pc
- 006P (9V), 1 pc

## Options

Low noise cable (3 m) LNC-3F-3 Low noise cable (5 m) LNC-3F-5 Low noise cable (10 m) LNC-3F-10	Curled cable LNC-3F-CC	Magnet (for curved surface mounting) MG-3A  Small size magnet. Mountable on a curved surface.	S contact pin SC-10  Higher resonance point than Standard	Output cable 3.5φ, cuttable type (1 m) CA-1311-1	Output cable 3.5φ, BNC type (1.5 m) MODEL-9803-97

## VIBRO Recorder set MODEL-1332B-R

DIGI-VIBRO MODEL-1332B	VIBRO Recorder MODEL-9801	Output cable 3.5φ, BNC type (1.5 m) MODEL-9803-97	CF card, 256MB MODEL-9803-72	Battery pack MODEL-9780	Portable case MODEL-9782	Soft case MODEL-9871

Note: VIBRO Recorder MODEL-9801 alone cannot be sold.



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