

# Vibrometer for Simple Diagnosis Use

# MK-21



An Easy to Operate, Portable Vibrometer with Diagnostic Function

## Features

- Has 3 measurement modes: acceleration, velocity and displacement
- Equipped with a diagnostic function compliant with ISO 10816-1 (JIS B 0906). Capable of automatically diagnosing the state of rotary machines.
- Also allows easy diagnosis of bearings with assessment criteria indicated on the back of the main unit
- Capable of continuously operating for more than 8 hours with one AA cell battery (equipped with an auto turn-off function)
- Uses a vibration pickup provided with a magnet to ensure stable measurement accuracy
- Capable of measurement even in a dark place with a backlit display
- Attached with a firm carry case that allows you to easily carry and store the vibrometer

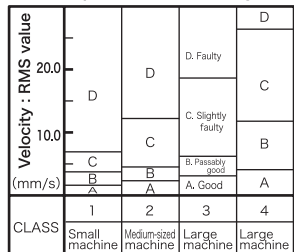


**JFE Advantech Co., Ltd.**

(Former name : Kawatetsu Advantech Co., Ltd. )

**Equipped with an automatic diagnostic function compliant with vibration severity standards**

Velocity - assessment diagram

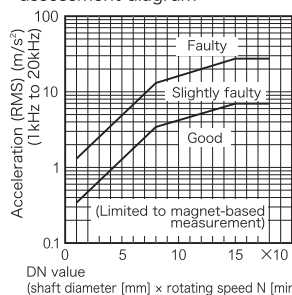


Vibrometer for simple diagnosis use model MK-21 is equipped with an automatic diagnostic function compliant with vibration severity standards (ISO-10816, JIS B 0906), allowing even those operators who have never used a vibrometer to diagnose the status of their facilities.

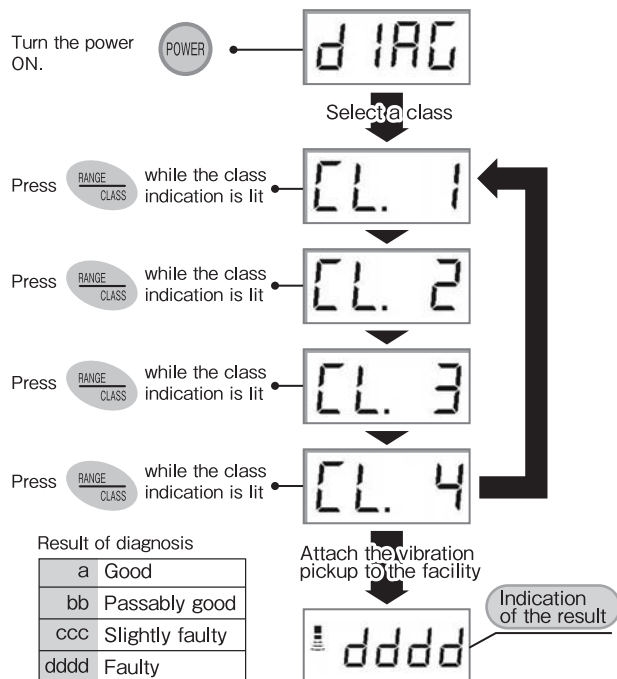
MK-21 also enables the user to assess whether a rotary bearing is a conforming article by referring to the assessment diagram provided on the back of the main unit.

\*The rotary bearing assessment diagram is an original standard of JFE Advantech Co., Ltd

Acceleration - rotary bearing assessment diagram



**Flow of diagnostic operation**



**Specifications**

Sensor	Piezoelectric vibration pickup (with magnet)		
Measurement mode	Acceleration (ACC)		
	Acceleration peak (ACC PEAK)		
	Velocity (VEL)		
	Displacement (DISP)		
Measurement range		Low range	High range
	Acceleration	0.0~20.0m/s <sup>2</sup>	0~200m/s <sup>2</sup>
	Acceleration peak	0.0~20.0m/s <sup>2</sup>	0~200m/s <sup>2</sup>
	Velocity	0.0~20.0mm/s	0~200mm/s
	Displacement	0~200μm	0~1990μm
Measurement frequency range	Acceleration	1 kHz~20 kHz	
	Acceleration peak	1 kHz~20 kHz	
	Velocity	10 Hz~1 kHz	
	Displacement	10 Hz~1 kHz	
Arithmetic processing	Acceleration	RMS value	
	Acceleration peak	PEAK value	
	Velocity	RMS value	
	Displacement	P-P value	
Display type	LCD 4.5 digits with backlighting		
Low-battery indication	Low-battery mark appears on LCD		
Service temperature range	0 to 50-C (90% RH, no condensation)		
Storage temperature range	-10 to 60-C (90% RH, no condensation)		
Power source	AA alkali dry battery (x1), continuously operable for over 8 hours		
Outer dimensions	69Wx154Hx30D		
Mass	Approximately 140 g (including battery)		

**Standard configuration**

Main unit	MK-21	x1
Piezoelectric vibration pickup	PU-626D	x1
Magnet	MK-9002	x1
Curl cord	CD-C1-3N	x1
AA dry battery	LR-6	x1
Carry case		x1
Instruction manual		x1

**Option**

Vibration pickup (hand-held)	PU-601R-A
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\* Bearing diagnosis with the assessment table is not available if the hand-held vibration pickup is used.

\* The catalog is subject to change without notice for improvement.

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Kawatetsu Advantech Co., Ltd. has been renamed to JFE Advantech Co., Ltd. since April 1, 2004.