## Standard composition









Accelerometer VP-100 (with 1.5m cable)

HS-AM001

Probe TVM-4-B371

Rubber jacket MDR-IM1913-009



TB-AC10NBK



Output cable

TVE-4-8100B







AA battery

Instruction manual Carrying case LR6XJ/2S

**Optional Accessories** 







AC adapter Specification

UBX305-0510

Short probe TVM-4-B372

Wall hanging magnet

Item	Specification				
Frequency range	Acceleration	5 to 10 kHz			
	Velocity	/elocity 10 to 1000 Hz			
	Displacement	10 to 1000 Hz			
Measurement mode	Acceleration	RMS, EQ PEAK			
	Velocity	RMS, EQ PEAK			
	Displacement	EQ PEAK, EQ P-P, RMS			
	Envelope function				
Judgment function	ISO Vibration severity judgment				
Internal memory	Flash memory 16 GB				
Display	TFT color LCD				
Notification	Battery level, memory level, Vibration value, clock				
Output interfaces	Ф3.5 mini-jack (vibration waveform output)/USB Type-C (date transfer)				
Power supply	AA 2 batteries, USB bus power				
Dimension	130 (H) x 67 (W) x 28 (D) mm				
Weight	Approx. 230 g (Including batteries)				
Ambient operating conditions	-10 to +50°C 90%RH or less				
Certification	CE mark(EMC directive)				

## **IMV** CORPORATION

**Head Office** 

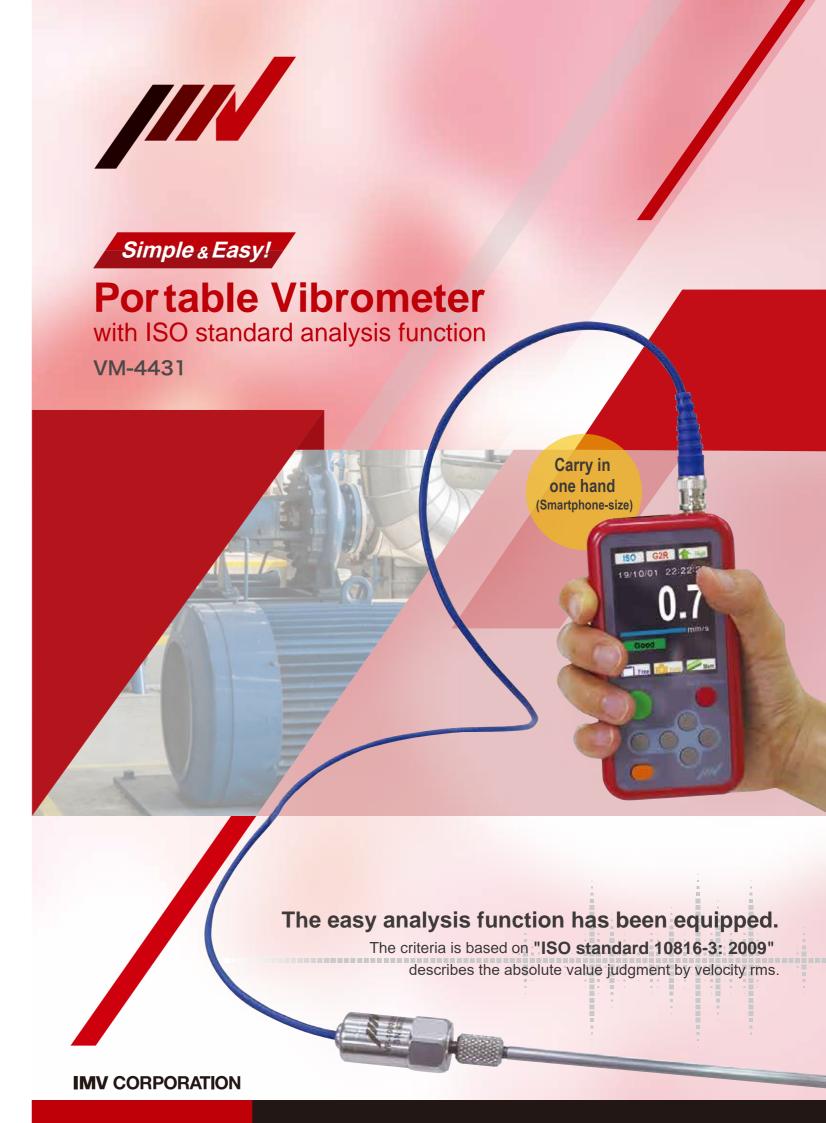
tel +81 6 6471 3155 web https://www.imv.co.jp/e

\*The specifications and design are subject to change without notice.









#### If there is no vibrometer,



As a common way to know the state of the rotating machines, listening and palpation methods are well-known. However, these are been subjected by the feeling of each individual, and result in the different analysis consequences.

## If there is vibrometer,



This vibrometer is capable of diagnosing machines by the "criterion". Anyone can produce the same result. No need to rely on the individual's ability anymore.

#### What is "Vibration severity measurement instrument on the requirements 10816-3: 2009"?

## ISO vibration severity

This standard is widely used for analysis of rotational machinery.

The current ISO standard 10816-3: 009 describes the absolute value judgment by velocity rms.

#### ISO 10816-3:2009 Vibration Standard Evaluation

Velocity severity (mm/s RMS)	Group 2		Group 1	
0.71	А	A	А	
2.3	В			А
2.8				
3.5	С	В	В	
4.5				В
7.1	D	С	С	
11.0		D	D	С
11.0				D
Foundation	Rigid	Flexible	Rigid	Flexible

A: good B: Satisfactory C: Unsatisfactory (alert) D: Unacceptable (danger)

## Objective machinery is classified into two major groups. Group 1 Large machinery

Output: 300 kW to 50 MW, Shaft hight: >315 mm

## Group 2

Output: 15 kW to 300 kW, Shaft hight: 160 mm to 315 mm



In this case, the measuring value is 4.0, means the state of the machine is "warningid"

This vibration meter has a built-in analysis function.

All you need is pushing the button and then the analysis result will be shown on the display.

## What can we know?

## Acceleration

Bearing scratches, noise, gear abnormalities, cavitation, etc.

## Velocity

Unbalance, misalignment, coupling failure, the slide bearing failure, foundation failure, impeller vibration, etc.

## **Displacement**

Surging, water hammer, ground vibration, pulsation of the pipe

## Simple and Easy













#### **Features**

## Big screen

Equipped with a large-screen TFT color LCD 2.8 inches.

ISO evaluation criteria

All you need is pushing the button

and then the analysis result will be

shown on the display.

## **Equipped with the** earphone jack

ISO G2R High

19/10/01 22:22:22

Φ3.5 mm jack is able you to auscultate machines like stethoscopes.

# Magnet fixing

The rear magnet helps you measuring. You will be able to use your both hands during measuring. \*Optional Accessories

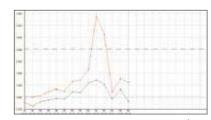


## **Accessibility**

Big button helps you pushing even when you are wearing groves.

## **Data viewer station**

We offers a free software that is designed to manage stored data. It is available in our website.



## **Application example**

6 Save function

Built-in memory of 16 GB inside.

Measurement data can be stored

for up to 10,000 points maximum.







