

The Tekneka VB290 vibration meter is a professional tool for measuring industrial vibrations and its frequency ranges from 10Hz to 1kHz. The VB290 offers acceleration, velocity, and displacement measurements, including a data hold button, memory functions, a separate vibration probe with a magnetic base, and an RS232 computer interface. It helps to analyze machine conditions by measuring vibration levels, which can identify problems including poor balance, misalignment, structural looseness, and demanding maintenance.

Features

- Frequency Range: 10Hz to 1kHz range provides for precise detection of normal machinery vibrations
- Velocity, displacement, and acceleration are measuring modes for versatile diagnostics
- User can pause the readings using the HOLD feature for further examination
- Maximum and minimum vibration levels can be saved using the REC & Memory feature
- Magnetic base of the vibration probe allows for a stable attachment for accurate measurements
- Computer connectivity for data processing and transfer is made easier by the RS232 port (optional)
- A bar graph on the LCD makes it possible to see measurements clearly
- It has a sturdy housing that can handle industrial settings and a compact design

Applications

The VB290 Vibration Meter is used for monitoring and recognizing machine problems in a variety of industrial settings. Identifying problems such as imbalance and misalignment facilitates predictive maintenance by minimizing downtime and enabling prompt repairs. The meter is also utilized in research to evaluate novel designs, in quality control to guarantee that equipment functions properly, and during installation to confirm the correct setup. To make sure everything runs safely and effectively, it is also helpful for monitoring buildings, HVAC systems, rotating machinery, power plants, and even marine and aerospace applications.



Technical Specifications

Description	Ranges	Resolution	Accuracy
Acceleration (RMS, Peak, Max Hold)	0.5 ~ 199.9m/s ²	0.1m/s ²	±(5% + 5dgt.) @ 160Hz, 80Hz, 23 ±5°C
	0.05 ~ 20.39G	0.01G	
	2 ~ 656ft/s ²	1 ft/s ²	
Calibration Point	50m/s ² (@ 160Hz)		
Velocity (RMS, Peak, Max Hold)	0.5 ~ 199.9mm/s	0.1mm/s	±(5% + 5dgt.) @ 160Hz, 80Hz, 23 ±5°C
	0.05 ~ 19.99cm/s	0.01cm/s	
	0.02 ~ 7.87inch/s	0.01inch/s	
Calibration Point	50mm (@ 160Hz)		
Displacement P-P (RMS, Max Hold)	0 ~ 1.999mm	0.001mm	±(5% + 5dgt.) @ 160Hz, 80Hz, 23 ±5°C
	0.002 ~ 0.078inch	0.001inch	
Calibration Point	0.141mm (@ 160Hz)		

General Specifications	
Measurement	Velocity, Acceleration, Displacement
Frequency Range	10Hz ~ 1kHz (as per ISO 2954)
Functions Menu	RMS, Peak, Maximum, Hold
Unit Button	Metric: m/s ² , g, mm/s, cm/s, mm Imperial: ft/s ² , inch/s, inch
Display	LCD with bar-graph, 52mm x 38mm
Max. Hold Measurement	To measure and update the max. peak value
REC. Sampling	0, 1, 2, 10, 30, 60, 600, 1800, 3600 sec.
Data Storage	500 data
Data Output Interface	RS232 & software (optional)
Data Hold	√
Auto Power Off	√(10 min)
Built Material	ABS
Operating Condition	0 ~ 50°C, <80%RH
Battery	9V DC
Packing Dimension	280 x 250 x 75mm
Device Dimension	180 x 72 x 32mm
Weight	Net: 317g/Gross: 972g

Ordering Info

VB290..... Vibration Meter Kit
 P0890645..... Vibration Sensor with Magnetic Mount

Packing Includes:

- Vibration Sensor
- Magnetic Mount
- 9V Battery
- User Manual
- Hard Carrying Case

Optional Accessories

- P0890641_RS-232 Cable (COM port)
- P0890642_Vibration Sensor (USB port)
- P0890643_Data Acquisition Software
- P0890643_Vibration Meter + RS-232 + Software Kit