



GAOTek Vibration Meter with 3 Channel (High-Quality Accelerometer)

Product ID GAO-VIBM-102



GAOTek Vibration Meter 3 Channel (High Quality Accelerometer) is used for measuring periodic motion and to check the imbalance and deflection of moving machinery. The Vibration Meter with 3 channels is specially designed for easy on site vibration measurement of all rotating machinery for quality control, commissioning, run time error, and predictive maintenance purposes. GAOTek Vibration Meter 3 Channel has the functionality to show 3 same parameters in one display for 3 position measurement. It can also show 3 different parameters of velocity, acceleration and displacement in 1 display. The device complies with ISO 2954 standards.

APPLICATIONS

- Measure periodic motion, and check the imbalance and deflection of moving machinery
- Measure on site mechanical vibrations of all rotating machinery

ASK AN EXPERT!
sales@gaotek.com

1-877-585-9555 x 601
1-416-292-0038 x 601

Within North America
Anywhere Else

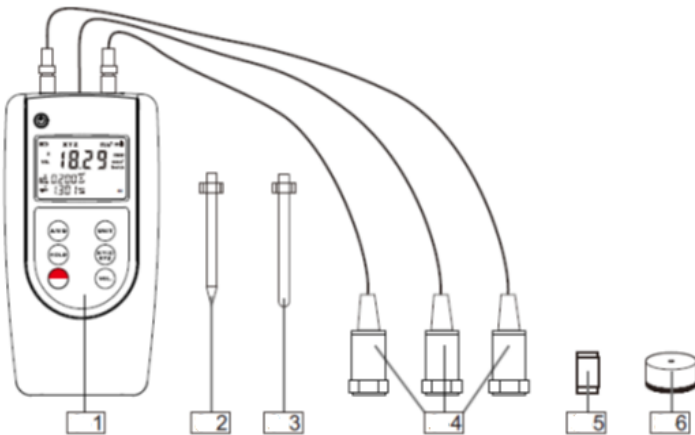
KEY FEATURES

- ❑ Uses piezoelectric acceleration transducer to convert vibration signal.
- ❑ In accordance with ISO 2954, GB13823.3 standards. Used for periodic measurements, to detect out-of-balance, misalignment and other mechanical faults in rotating machines.
- ❑ Specially designed for easy on-site vibration measurement of all rotating machinery for quality control, commissioning, and predictive maintenance purposes.
- ❑ 3 accelerators for 3-channel vibration measurement.
- ❑ 3 same parameters in one display for 3 position measurement or 1 position measurement specified, showing 3 different parameters of velocity, acceleration and displacement in 1 display.
- ❑ Individual high quality accelerometer for accurate and repeatable measurements.
- ❑ Bearing condition monitoring function.
- ❑ Lightweight and easy to use.
- ❑ Wide frequency range (10 Hz ~10 kHz).
- ❑ Automatic power shut off to conserve power.
- ❑ AC output socket for headphones and recording.
- ❑ Optional headphones for use as electronic stethoscope.
- ❑ Uses USB/RS-232 data output to connect with PC.
- ❑ Provides Bluetooth data output choice.

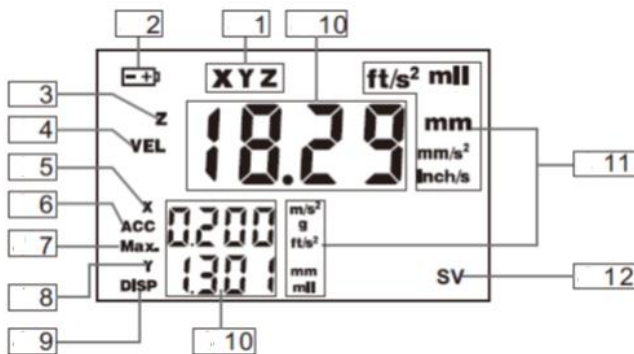
GAOTek Vibration Meter with 3 Channel (High-Quality Accelerometer)

Product ID GAO-VIBM-102

PRODUCT DESCRIPTION



1	Main Unit
2	Stinger Probe (Cone)
3	Stinger Probe (Ball)
4	Vibration Sensors
5	Bolt
6	Magnetic Base



1	3-channel indication
2	Low Battery indication
3	Z – channel
4	Velocity
5	X-channel
6	Acceleration
7	Max value hold
8	Y-channel
9	Displacement
10	Measuring Value
11	Measuring Unit
12	Auto power off is enabled

GAOTek Vibration Meter with 3 Channel (High-Quality Accelerometer)

Product ID GAO-VIBM-102

TECHNICAL SPECIFICATIONS

Model	GAO-VIBM-102	
Vibration Sensor	3 Piezoelectric Transducers	
Display	4-digit LCD backlit	
Accuracy	5% of Reading +2 digits	
Measurement Range	Displacement	0.001 mm - 4.000 mm; 0.04 mil-160.0 mil Equivalent Peak-Peak
	Acceleration	0.1 m/s ² - 400.0 m/s ² (0.3 ft/s ² - 1312 ft/s ² or 0.0 g - 40 g) Equivalent Peak
	Velocity	0.01 mm/s - 400.0 mm/s (0.0004 inch/s - 16.00 inch/s) True RMS
Frequency Range	Displacement	10 Hz ~ 1 kHz
	Acceleration	10 Hz ~ 10 kHz
	Velocity	10 Hz ~1 kHz
Conversion	Metric and Imperial	
Analogue Output	AC output 0 V~2.0 V peak full scale (load resistance: above 10k) With Max. value hold and low battery indication	
PC interface	RS-232C (Cable and software is not included)	
Power off	Manual off at any time or auto power off is enabled by user	
Operating Conditions		
Temperature	32 °F - 122 °F (0 °C - 50 °C)	
Humidity	below 90 % RH	

GAOTek Vibration Meter with 3 Channel (High-Quality Accelerometer)

Product ID GAO-VIBM-102

TECHNICAL SPECIFICATIONS

Power Supply	4x1.5 V AAA (UM-4) Battery
Size	5.51 in × 2.87 in × 1.38 in (140 mm × 73 mm × 35 mm)
Weight	0.91 lbs (415 g) (Without Batteries)

ISO/IS2373 Motor quality standard according to vibration velocity

Quality Rank	Rev (rpm)	H: height of shaft (mm) Maximum vibration velocity (rms) (mm/s)		
		80<H<132	132<H<225	225<H<400
Normal	600~3600	1.8	2.8	4.5
Good (R)	600~1800	0.71	1.12	1.8
	1800~3600	1.12	1.8	2.8
Excellent (S)	600~1800	0.45	0.71	1.12
	1800~3600	0.71	1.12	1.8

GAOTek Vibration Meter with 3 Channel (High-Quality Accelerometer)

Product ID GAO-VIBM-102

PACKAGING LIST

No.	Item Description	Quantity
1	Main Unit	1
2	Piezoelectric Transducers	3 pc
3	Powerful rare earth magnet	1
4	Probe (Cone) & Probe (Spherical)	Each 1
5	Carrying Case	1
6	User Manual	1

OPTIONAL ACCESSORIES

No.	Item Description	Quantity
1	Headset	1
2	RS-232C Data Cable with Software	1
3	Bluetooth Data Adapter with Software	1

ASK AN EXPERT!
sales@gaotek.com

1-877-585-9555 x 601
1-416-292-0038 x 601

Within North America
Anywhere Else