

Vibration Measurement

Digital Vibration Kits

Get precision, accuracy for vibration analysis

The rugged, portable design features a 100 mV/g accelerometer for measuring vibration acceleration, displacement, and velocity, and stores measurements in an internal memory for later recall and analysis. Additional features include automatic amplitude scaling, auto power-off and a large, easy-to-read backlit display viewable in direct sunlight or low light locations.

What's included: ICP accelerometer, 5-ft cable, magnetic base, 7" probe tip, four AA batteries, carrying case, and NIST-traceable calibration report supplied by the manufacturer.



Specifications

Frequency range: $\pm 5\%$ = 180 to 480,000 rpm (3 to 7,000 Hz); ± 3 dB = 24 to 840,000 rpm (0.4 to 14,000 Hz)
Accuracy: $\pm 5\%$ of full scale
Input: industrial ICP accelerometer (100 mV/g)
Output: signal for headphones; 1/8" mono jack
Power: four AA batteries (included)

Vibration range			Catalog number	Price
Acceleration	Displacement	Velocity		
0.001 to 199.9 g (peak)	0.015 to 199.9 mil (peak-to-peak)	0.001 to 199.9 in./sec (peak)	GY-65700-11	
0.01 to 199.9 g (peak)	0.04 to 199.9 μ m (peak-to-peak)	0.02 to 199.9 mm/sec (peak)	GY-65700-12	

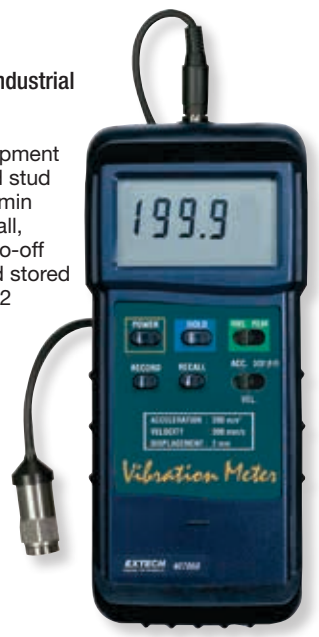
Heavy-Duty Vibration Meter

Measure acceleration, velocity, and displacement

– Rubber boot protects the meter in industrial environments

Connect the vibration sensor to equipment via magnetic attachment or threaded stud mount. The RECORD feature stores min and max measurements for later recall, Hold feature freezes display, and auto-off function saves battery life. Download stored measurements to your PC via RS-232 interface (sold separately below).

What's included: vibration sensor (39" [99 cm] cable), magnetic sensor attachment, rubber boot with stand, one 9 V battery, and carrying case.



Specifications

Frequency range: 10 Hz to 1 kHz
Accuracy: $\pm 5\%$ of reading + 2 digits
Power: one 9 V battery (included)
Low-battery indication: yes

Vibration range			Catalog number	Price
Acceleration	Displacement	Velocity		
2 to 656 ft/s ² (0.5 to 199.9 m/s ²)	0.078 in. (2 mm)	0.02 to 7.87 in./sec (0.5 to 199.9 mm/sec)	GY-98831-30	

[GY-10200-10](#) RS-232 cable and software
[GY-10200-30](#) Adapter, 115 VAC
[GY-10200-35](#) Adapter, 220 VAC



Single and Four-Channel Vibration Meters/Data Loggers

Get better data analysis

- SD card format provides additional data storage/downloading flexibility
- Meters feature RMS or peak value measurement modes for additional flexibility
- User-selectable data sampling rates

Meters feature data logging capability that date/time stamps measurement readings for easy transfer to a PC for further analysis. The intuitive push button interface menu is easy to navigate providing quick and easy set up and operation, and the rugged design is ideal for challenging environments.

What's included: Remote sensor with magnetic adapter on 47 1/4" (1.2 m) cable, (model 65700-17; four sensors with magnetic adapters on 39" (1 m) cables), SD card, hard carrying case, and six AA batteries (model 65700-17; eight AA batteries).

Specifications

Frequency range: 10 Hz to 1 kHz
Accuracy: $\pm 5\%$ + 2 digits
Input: remote sensor with magnetic adapter
Output: SD Card (2G)
Power:
 Model 65700-18: six AA batteries
 Model 65700-17: eight AA batteries



Channels	Vibration range			Catalog number	Price
	Acceleration	Displacement	Velocity		
One	656 ft/s ² , 200 m/s ² , 20.39 g (peak)	0.078 in., 2 mm (peak-to-peak)	7.87 in./s, 200 mm/s, 19.99 cm/s (peak)	GY-65700-18	
Four	656 ft/s ² , 200 m/s ² , 20.39 g (peak)	0.078 in., 2 mm (peak-to-peak)	7.87 in./s, 200 mm/s, 19.99 cm/s (peak)	GY-65700-17	

Vibration Meters with Electronic Stethoscope

Quickly locate machine noise

- Ideal for troubleshooting and preventive maintenance programs
- Vibration severity chart on front of meter relates status to machinery applications per ISO 10816-1
- Use optional software to store, compare, and graph measurements



Vibration Meter includes the vibration meter with electronic stethoscope and two AA batteries. Order the accelerometer sensor and headphones separately under “Accessories”.

Vibration Meter Kit with Sensor Pack includes the vibration meter with electronic stethoscope, sensor pack (98834-70), headphones (98834-90), carrying case, and two AA batteries.

Vibration Meter Kit with Sensor Pack and Software includes the vibration meter with electronic stethoscope, sensor pack (98834-70), software (98834-65), headphones (98834-90), carrying case, and two AA batteries.

Specifications

- Vibration range:** 0.01 to 19.99 in./sec or mm/sec, rms
- Accuracy:** ±5% full-scale
- Resolution:** 0.01 in./sec or mm/sec
- Power:** two AA batteries (included)
- Frequency range:** 10 Hz to 10 kHz
- Low-battery indication:** yes

Description	Catalog number	Price
Vibration meter	GY-98834-00	
Vibration meter kit with sensor pack	GY-98834-03	
Vibration meter kit with sensor pack and software	GY-98834-08	

Accessories

GY-98834-65 Software, CD-ROM. Provides graphical trends, alarm levels, condition monitoring, and machinery analysis. Requires Windows® 95/98, XP, or later

GY-98834-70 Sensor pack. Includes accelerometer (98834-74), magnetic base (98834-77), connecting stud (98834-81), and stinger (98834-84)

GY-98834-74 Accelerometer, vibration sensor with integral cable and 1/4-28 tap

GY-98834-77 Magnetic base; 1 1/4" (3.2 cm) dia x 1 3/8" 3.5 cm) H, 1/4-28 tap

GY-98834-81 Connecting stud to adapt accelerometer to magnetic base or stinger

GY-98834-84 Stinger, 4 1/2" (11.4 cm) L stainless steel probe with 1/4-28 tap

GY-98834-90 Headphones with 8-ft coiled cable

GY-09376-01 Replacement batteries, AA. Pack of 4

Vibration Meter

Instantly check vibration conditions

- Measures displacement, velocity, and acceleration
- Standard 100 in./g accelerometer
- Digital, solid-state circuitry



The Model 205 vibration meter measures overall vibration amplitude in the range of 26 to 300,000 rpms on rotating machinery. The portable, battery-operated, handheld meter features a standard 100 mV/g accelerometer for measuring vibration displacement, velocity and acceleration.

What's included: 5-ft (1.5-m) cable and transducer, magnetic base clamp, “B” book guide to vibration measurement, vibration severity wallet card, carrying case, four AA batteries, and calibration document supplied by the manufacturer.



Description	Vibration meter
Catalog number	GY-98861-00
Amplitude meter range*	Displacement: 0.001 to 199 mils (peak to peak) Velocity: 0.001 to 199 in./s (peak) Acceleration: 0.001 to 199 g's (peak)
Range	Four selectable ranges with over-range indication for each range High: 200 = 20.0 to 199.9 Medium: 20 = 2.00 to 19.99 Low: 2 = 0.020 to 1.999 VLR: 20 to 199.9
Sensitivity	Displacement: 0.000001 in. Velocity: 0.001 in./s Acceleration: 0.001 g
Accuracy	±5% of full scale
Display	3 1/2-digit, numeric LCD; 3/4" characters
Power	Four AA batteries
Price	

*Note: Very low range in units of 0.001 g's, 0.001 in./s and micro-inches

Accessories

[GY-17101-66](#) NIST-traceable calibration with data