



Description	Range	Accuracy	Mfr. Model	Item No.
Shimpo Digital Force Gauge				
FGE-HXY Series	0 to 200 lb • 0 to 500 lb			D2978
FGE-XY Series	0 to 0.5 lb • 0 to 1 lb • 0 to 2 lb • 0 to 5 lb • 0 to 10 lb • 0 to 20 lb • 0 to 50 lb • 0 to 100 lb			D1783
FGV Series	100N			45AE77
FGV Series	500N			45AE78
FGV Series	1000N			45AE79
FGV-XY Series	0.5 lb, 2 N, 200 g, 8 oz • 1 lb, 16 oz, 5 N, 500 g • 10 N, 1000 g, 2 lb, 32 Oz • 2 kg, 20 N, 5 lb • 10 lb, 5 kg, 50 N • 10 kg, 100 N, 20 kg, 200 N, 50 lb • 100 lb, 50 kg, 500 N • 100 kg, 1000 N, 200 lb			D1773
Shimpo Digital Torque Meter				
TNP Series	10.00 N-m, 1000 N-cm, 102.0 Kg-cm, 88.5 lb-in			D1786
Shimpo High Capacity Digital Force Gauge				
FGV-HXY Series	250 kg, 2500 N, 500 lb			23MD82
FGV-HXY Series	1,000 lb., 4448 N, 453.6kg			23MD81
Exttech Digital Force Gauge				
196 N, 20 kg, 44 Lb			475044-NIST	9M293
Exttech Digital Force Gauge				
44 lb/20 kg/196 N	+/-0.5% + 2 Digits		475044	1T242
176 oz/5000 gm/49 N	+/-0.4% + 1 Digit		475040	3ZHG3
176 oz/5000 gm/49 N	+/-0.4% + 1 Digit		475040-NIST	6TNH9
220 lb/100 kg/980 N	+/-0.5% + 0.1 Lb, 0.1 Kg or 0.4 N		475055	1LYP5
Exttech AC Adapter				
AC Adapter			153117	3ZH65



Tension/Compression Digital Force Gauges

Measure standard and peak tension (pull) or compression (push) of mechanical items and systems.

SHIMPO

- 1000 Hz sampling rate
 - LCD with reversible viewing direction
- Gauges feature standard or peak measurement modes, force direction indication, and reversible keypad. Auto-Off can be disabled for continuous use with included AC adapter/charger. Each includes tension attachment (hook), compression attachments (chisel, flat, notched, and cone), metric/English thread adapter, extension rod, and hanger.

FGE-HXY and FGE-XY—Feature peak hold. Selectable oz., lb., g, or Newton units (8- to 32-oz. range) or lbs., kg, or Newton units (5- to 500- lb. range).

FGV-HXY and FGV-XY—With selectable High/Low comparator, onboard min./max./peak/avg./standard deviation, and continuous and single memory options. Software package, RS-232/USB/analog outputs, and USB cable for data export and analysis.

Selectable oz., lb., g, or Newton units (8- to 32-oz. range) or lb., kg, or Newton units (5- to 1000-lb. range).

EXTECH

- 5-digit LCD with reversible viewing direction
- Feature peak hold and zero/tare functions. 0.2 (fast) and 0.6 sec. (slow) response time settings. Each includes AA batteries. Optional data acquisition software with RS-232 cable 1CLF1 and optional USB adapter cable 1CLF2, sold separately on Grainger.com

Force Gauge/Data Loggers and Gauges with 44-lb. and 176-oz. Capacity—

Feature load cell measurement transducer with tension adapter (hook), compression adapters (flat, cone, and chisel), and 5" extension rod.

Force Gauge with 220-lb. Capacity—

RS-232 interface for data export. Backlit display. Includes tension and compression adapters (hooks), S-type load cell, and 6½-ft. cable.



Tension/Compression Mechanical Force Gauges

- Accuracy: ±0.2%
- Dial indicator

Measure tension (pull) or compression (push) in real time or peak mode for assembly line quality control. 165-lb. overload protection safeguards against

damage. Each includes compression attachments (flat, chisel, notched, and cone), tension attachments (hook, large hook, and large V-hook), extension rod, and carrying case.

►Please choose: To order, specify range in lb. or kg from table.



► CHOOSE:	► CHOOSE:	Item No.
Pounds (lb.)	Kilograms (kg.)	
2	30	1
5	50	2
10	100	3
20	—	5
		50
Measuring Units		Item No.
lb		D1784
kg		D1785



Heavy-Duty Vibration Meters

Batteries and carrying case are included.

EXTECH

Digital Vibration Meter Kits—Measure velocity, acceleration, and displacement. Feature Min./Max. and RMS or peak value measurement. With built-in RS-232 interface and LCD. Each includes remote vibration sensor with 3.9-ft. cable, magnetic mount, and holster. Can store and analyze data with optional software and cable 1CLF1, sold separately on Grainger.com.

Pen Vibration Meter—Measures RMS acceleration and velocity, with zero adjustment and low battery indicator. Housing is IP65 dust-tight and waterproof. Includes pin-tip probe, and magnetic mount.



Vibration Meter/Data Loggers 13X134 and 43Y050—

Measure velocity, acceleration, and displacement. Feature Min./Max., RMS/Peak/Max. Hold modes, and selectable sampling rate from 1 to 3600 sec. Retain up to 99 readings, or use included 2G SD card to store datalogs for analysis. Include remote vibration sensor with magnetic mount on 47.2" cable.

MONARCH INSTRUMENT

Vibration Tester—Meter/stethoscope system measures acceleration, velocity, and acceleration enveloping. Features bearing gear check and LCD. Includes accelerometer with cable, headphones, magnetic base, and stinger.

TPI

Vibration Meters—Easy-to-use vibration monitoring and analysis tools display vibration signals. Automatically perform vibration analysis functions based on machine running speed to help diagnose faults such as unbalance, misalignment, and looseness. Designed for use with assets like pumps, motors, fans, or bearings.

Item	Accel. Range	Frequency Range (Hz)	Vel.	Display	Auto Power Off	Data Hold	Battery Type	NIST	Mfr. Model	Item No.
Exttech										
Digital Vibration Meter Kit	2 to 656 ft/sq sec or 0.5 to 200 m/sq sec	10 to 1 K	0.02 to 7.87 in/sec or 0.5 to 200 mm/sec	LCD	Yes	Yes	9V	No	407860	1AEV9
Pen Vibration Meter	20.39g, 200 m/sq sec, 656 ft/sq sec	10 to 1 K	19.99cm/s, 200mm/s, 7.87in/s	LCD	No	Yes	(4) AAA	No	VB400	13X135
Vibration Meter/Datalogger	20.39g, 200 m/sq sec, 656 ft/sq sec	10Hz to 1 KHz	19.99cm/s, 200mm/s, 7.87in/s	Backlit LCD	With Disable	Yes	(6) AA	No	SDL800	13X134
Monarch										
Vibration Tester	0.01 to 19.99g	10 to 10 K	0.01 to 19.99 in/sec, 0.1 to 199.9 mm/sec	LCD	—	Yes	(2) AA	—	Examiner 1000	6KX53
Test Products Intl.										
Vibration Meter	0.01 g to 50g	1 KHz to 10kHz Bearings, 2/10 Hz to 1 KHz ISO	0-25 mm/sec	Full Color OLED	Yes	Automatic	(2) AA	No	9070	38NJ28
Vibration Tester	0.01 g to 60g	1 KHz to 10kHz Bearings, 2/10 Hz to 1 KHz ISO	0-25 mm/sec	Full Color OLED	Yes	Automatic	(2) AA	No	9080	38NJ29
Vibration Tester	1 to 1000 mV/g	10 Hz to 10 kHz	720mm/sec	Full Color OLED	Yes	No	(2) AA	Yes	9080K2	400R50