

## OVERVIEW

HI 803/813 portable vibration shakers are designed to be used in the field or shop to verify the performance of vibration transducers, connectors, cabling, instruments or permanently installed condition monitoring systems. Both models are battery-powered, portable and feature a built-in reference accelerometer and indicator with calibration traceable to the National Institute of Standards and Technology (NIST).

These shakers can easily check velocity transducers, accelerometers and non-contacting Eddy Probe displacement measurement systems. Simply attach the transducer to the shaker head (displacement probes require a mounting fixture and target), set the shaker to a known vibration reference level, and verify readings. The reference test level can be set in acceleration, velocity, or displacement, English or Metric.

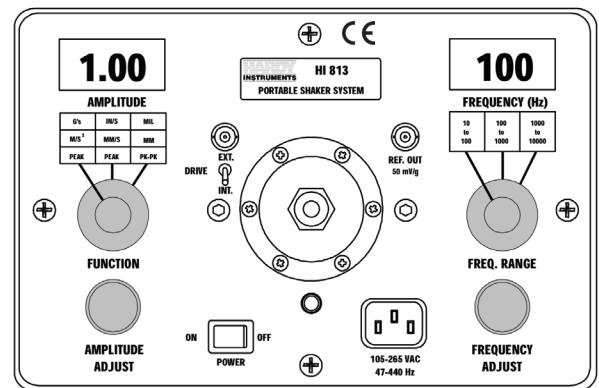


## FEATURES AND BENEFITS

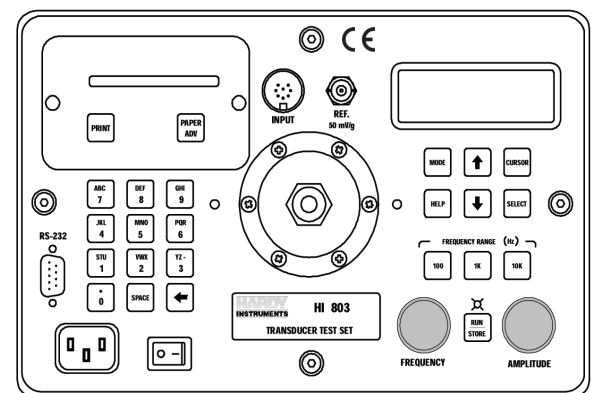
- Actual precision vibration testers
- True and accurate testing of vibration sensors
- NIST traceable calibration reference
- High-level vibration accuracy
- Variable frequency and adjustable vibration amplitudes
- Rapid set-up for all vibration conditions
- Battery operated
- Ability to “take the calibration lab to the field”

## APPLICATIONS

- Loop checks of vibration monitoring systems
- Verification and testing of velocity transducers, accelerometers, eddy current probes, etc.
- Troubleshooting of issues in vibration monitoring loops
- Calibration of portable vibration analyzers
- Confirmation of vibration alarms



HI 813 Panel



HI 803 Panel

**SPECIFICATIONS**


	HI 803	HI 813
<b>Battery Type</b>	Sealed, rechargeable	Sealed, rechargeable
<b>Charger</b>	Internal Specify 120 or 240 Vac	Internal 120 or 240 Vac
<b>Frequency Range</b>	10 to 10,000 Hz	25 to 10,000 Hz
<b>Acceleration Readout (<math>\pm 1</math> digit)</b>	10 to 2,000 Hz, $\pm 3$ dB 2,000 to 10,000 Hz, +1 dB	30 to 1,000 Hz, $\pm 3$ dB 1,000 to 10,000 Hz, +1 dBW
<b>Velocity Readout</b>	10 to 500 Hz, +.3 dB	30 to 500 Hz, +.3 dB
<b>Displacement Readout</b>	25 to 200 Hz, +.3 dB	30 to 100 Hz, +.3 dB
<b>Maximum Output</b>	10g at 100 Hz, 100 gram load (3g above 1,000 Hz) 1g at 100 Hz, 750 gram load	10g at 100 Hz, 100 gram load (3g above 1,000 Hz) 1g at 100 Hz, 750 gram load
<b>Calibration</b>	NIST traceable standard	NIST traceable standard
<b>Waveform Distortion</b>	<5% THD, 30 to 2,000 Hz	<5% THD, 30 to 2,000 Hz
<b>Maximum Unsupported Load</b>	750 grams, vertical or 500 grams, horizontal	750 grams vertical or horizontal
<b>Physical Size &amp; Weight</b>	11"W x 7"D x 10"H, 21 lbs.	11"W x 7"D x 10"H, 19 lbs.
<b>Sensor Mounting Thread</b>	1/4-28 thd hole, 1/4" deep	1/4-28 thd hole, 3/8" deep
<b>English &amp; Metric Readout</b>	Yes	Yes
<b>Indicates Test Sensor Output</b>	Yes, normalized sensitivity mass loading compensation, phase	No
<b>Internal Memory</b>	Yes, stores test data	No
<b>Built-in Printer</b>	Yes, thermal type, prints current or stored test data	No
<b>RS-232 Output</b>	Yes, stored data transfer	No

**ACCESSORIES**

PART NO.	DESCRIPTION
6006-0008	Power Cord, AC
2824-0135	Screw, 1/4-28X
0228-0071-01	Mounting Fixture, Accelerometer
5407-0001	Screwdriver, Flat Blade
0202-0072-01	Communication Software
0215-0183-01	Charge Cable
2112-0007	Cable Connector Kit, HI 803 input from TUT
0215-0129-01	Cable, Portable Shaker to 2-pin HI 113 Accel
8841-0101	Adapter, 1/4-28 to 1/4" NPT
6006-0008	Power Cord, AC
0228-0070-01	Adapter, 1/4-28 to 1/4-28 UNF
0228-0070-03	Adapter, 1/4-28 to 2-56 UNC
0228-0070-04	Adapter, 1/4-28 to 6-32 UNC
0228-0070-05	Adapter, 1/4-28 to 10-32 UNC
0228-0071-02	Velocity/Universal Transducer Adapter, w/ screw
0228-0072-01	Wrench, Shaker Head

NON STANDARD ACCESSORIES	
HI 224	Eddy Current Probe Test Kit
0205-0049	Mounting Spacer
0228-0136-01	Mounting Plate, Magnetic 2" Dia, 1/4" thick
1901-0057	Paper, Thermal Printer (Seiko p/n 201-211-25C) HI 803 Calibration Kit
0228-0141-01	Stud, 1/4-28 to M8 (Metric)
0228-0137-01	Adapter stud. 1/4-28 UNF to 3/8-24 (HI 5701VT)
0228-0075-01	4140 Steel Target (incl w/ 223/224 kits)
0228-0071-02	Velocity/Universal Transducer Adapter, w/ screw

**HOW TO ORDER**

MODEL	DESCRIPTION	CERTIFICATIONS
HI 803-120V	Portable Shaker, variable frequency and amplitude control, manual and sensitivity modes (sensitivity mode tests the transducer and provides a mV/unit output to compare with the sensor manufacturer's specifications), built-in self-test program, built-in printer with paper, data storage, RS-232 port/USB adapter and data transfer software, 120V, standard accessories.	
HI 803-240V	Same as the HI 803-120V, except the voltage requirement is 240 volts.	
HI 813-CE	Portable Shaker, variable frequency and amplitude control, 115/220V, standard accessories.	