

MODEL 394C06

# Portable 1g Handheld Shaker

Conveniently Verifies Accelerometer and Vibration System Performance

- Features Switchable 1g RMS or 1g Peak Acceleration Output
- Drives Vibration Sensors Weighing up to 210 grams
- Operates at 159.2 Hz
- Powered by Battery; Adaptable to AC
- CE Compliant



**Model 394C06 Handheld Shaker**  
Verifies Accelerometer and  
Vibration System Performance

Model 394C06 is a small, self-contained handheld shaker designed for the rapid checking of accelerometers, vibration monitoring systems, and recording systems. It provides a known, controlled, selectable RMS or peak vibration for verification of accelerometers weighing up to 210 grams.

Model 394C06 provides 80 to 1600 calibration cycles depending on accelerometer weight and is powered by a self-contained battery pack. The automatic shut-off after a 1.75-minute cycle can be overridden by a switch in the back to provide continuous operation. The internal suspension is protected from overload by mechanical stops.

As with all PCB® instrumentation, this equipment is complemented with toll free applications assistance, 24-hour customer service, and is backed by a no risk policy that guarantees satisfaction or your money refunded.

 **PCB** PIEZOTRONICS<sup>INC.</sup>  
VIBRATION DIVISION

*Total Customer Satisfaction Guaranteed*



## Specifications

Performance		English	SI
Operating Frequency	± 1%	159.2 Hz	159.2 Hz
Acceleration Output <sup>(1)</sup>	± 3%	1.00 g rms	9.81 m/s <sup>2</sup> rms
Velocity Output		0.39 in/s rms	9.81 mm/s rms
Displacement Output		0.39 mil rms	9.81 μm rms
Transverse Output		≤ 3%	≤ 3%
Distortion	0 to 100 gram load	≤ 2%	≤ 2%
	100 to 210 gram load	≤ 3%	≤ 3%
Maximum Load <sup>(2)</sup>		7.4 oz	210 gm
Automatic Shut Off Time <sup>(3)</sup>		1.0 to 2.5 minutes	1.0 to 2.5 minutes
Calibration Cycles	2 gram load	320 cycles	320 cycles
	25 gram load	600 cycles	600 cycles
	50 gram load	1600 cycles	1600 cycles
	100 gram load	400 cycles	400 cycles
	150 gram load	160 cycles	160 cycles
	210 gram load	80 cycles	80 cycles

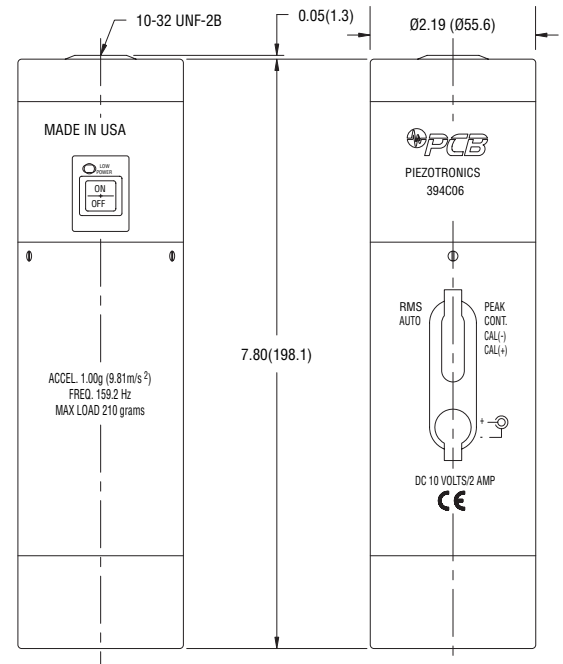
Environmental			
Temperature Range	Operating	+15 to +130 °F	-10 to +55 °C

Electrical			
Ramp-Up time		≤ 3 sec	≤ 3 sec
Internal Battery (4 each)	Type	AA	AA
DC Power		10 VDC	10 VDC
		2.4 amps	2.4 amps
Battery Life	2 gram load	8 hours	8 hours
	25 gram load	15 hours	15 hours
	50 gram load	40 hours	40 hours
	100 gram load	10 hours	10 hours
	150 gram load	4 hours	4 hours
	210 gram load	2 hours	2 hours

Physical			
Size	Diameter × Height	2.2 in × 7.8 in	56 mm × 200 mm
Weight	with batteries	31 oz	900 gm
Mounting Thread		10-32 Female	10-32 Female
Mounting Torque	Maximum	10 in-lb	112 N-cm

### Notes:

- (1) Switch selectable for 1 g peak or 1 g rms. Factory set at 1 g rms.  
 (2) Inclusive of mounting accessories and cable  
 (3) Switch selectable for continuous operation or auto shut-off.



**Model 394C06  
Handheld Shaker**

Dimensions shown are in inches (millimeters)

### Optional Version

Model M394C06 — Calibrated for 10.0 m/s<sup>2</sup> (1.02 g) rms output acceleration (±3%)

### Supplied Accessories

- 1 Model 073A15 Battery Pack
- 1 Model 080A109 Petro Wax Sample
- 1 Model 080A84 Mounting Base (5-40 to 10-32)
- 1 Model 080A85 Mounting Base (M3 x 0.5 to 10-32)
- 1 Model 081A08 Mounting Stud (10-32 to 1/4-28)
- 1 Model 081B05 (10-32 to 10-32)
- 1 Model M081B05 Mounting Stud (10-32 to M6 x 0.75)
- 1 Model M081B23 Metric Mounting Stud (10-32 to M5 x 0.8)
- 1 Carrying Case
- 1 Storage Box

### Optional Accessories

- Model 073A16 DC Power Supply
- Model 080A150 Threaded Mounting Base 1/4-28
- Model 080B44 3-pin Mounting Adaptor (for Model 333B accelerometer)



This product conforms to applicable European Directives for CE marking.



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A2LA ACCREDITED to ISO 17025

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