

**Model 394B06**

## **Handheld Calibrator**

**CALIBRATES ACCELEROMETERS WEIGHING UP TO 85 GRAMS**

- *Excites at fixed operating frequency of 79.6 Hz*
- *Maintains constant vibration level of 1g rms*
- *Allows accurate calibration while handheld at any angle of orientation*
- *Operates for at least sixty 2-minute calibration cycles on one fresh 9V alkaline battery*
- *Automatic shutoff prolongs battery life after a 2-minute cycle*
- *Mechanical stops prevent suspension damage due to overload.*

The calibrator is an easy-to-use, self-contained vibration reference source. In addition to calibrating accelerometers, it also permits a quick, convenient checkout of test setup; aids in channel identification, system fault finding, continuity checking and performance verification of the complete measurement system.



*"Helping you make better dynamic measurements"*

**PCB**<sup>®</sup>  
PIEZOTRONICS

Model 394B06 Handheld Calibrator permits rapid calibration and checking of vibration measurement and monitoring systems which use accelerometers weighing up to 85 grams. To prolong life, the calibrator incorporates a rugged suspension and built-in mechanical stops to avoid overload damage.

SPECIFICATIONS: Model No.		394B06
Frequency ( $\pm 1\%$ )	Hz	79.6
Acceleration ( $\pm 3\%$ )	g ( $\text{ms}^{-2}$ ) rms	1.00 (9.81)
Velocity ( $\pm 4\%$ )	in/s (mm/s) rms	0.772 (19.6)
Displacement ( $\pm 5\%$ )	mil ( $\mu\text{m}$ ) rms	1.54 (39.1)
Transverse Amplitude relative to main axis	%	< 5
Distortion <sup>(1)</sup>	0-85 gm load	$\pm 5$
	10-70 gm load	$\pm 3$
Maximum Load	oz (gm)	3.00 (85)
Warm-up Time	s	< 5
Temperature Range	$^{\circ}\text{F}$ ( $^{\circ}\text{C}$ )	14 to 131 (-10 to +55)
Humidity (at 85 $^{\circ}\text{F}$ noncondensing)	%	90
Power Required (battery supplied)	V	9
Size (dia x height)	in (mm)	2.05 x 5.9 (52 x 150)
Weight (with battery)	oz (gm)	24.5 (695)
Mounting Thread	female	10-32
<b>Models Available:</b>	<b>1.00 g</b>	<b>10 m/s<sup>2</sup></b>
General purpose with 10-32 mtg thd	394B06	394A08
Structcel <sup>®</sup> Application	394B05	394A07

(Supplied accessories for 394B05 include Models 080A43 and 080A44 adaptor heads for mounting of Structcel sensors)

(1) Distortion is measured with 1g rms referenced at 40 grams.

**OPTIONAL ACCESSORIES for 394B05 and 394B06**

Contact factory for optional mounting studs available for your accelerometers.

Mounting Base Adaptors for Accelerometers	
Model No.	Adapts mounting hole (10-32 thd) of Calibrator to:
080A83	Adhesive mount
080A84	5-40 female thread
080A85	M3 x 0.5 female metric thread
080A86	M5 x 0.8 female metric thread
080A87	M6 x 0.75 female metric thread

**BLOCK DIAGRAM**

