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 rinding, continuity checking and performance verification of the complete measurement system.



"Helping you make better dynamic measurements"



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 (±1%)	Hz	79.6
Acceleration (±3%) g (ms ⁻²) rms		1.00 (9.81)
Velocity (±4%) in/s (mm/s) rms		0.772 (19.6)
Displacement (±5%) mil (μm) r		1.54 (39.1)
Transverse Amplitude		
relative to main axis	%	< 5
Distortion ⁽¹⁾ 0-85 gm load	%	±5
10-70 gm load	%	±3
Maximum Load	oz (gm)	3.00 (85)
Warm-up Time	S	< 5
Temperature Range	°F (°C)	14 to 131 (-10 to +55)
Humidity (at 85°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
Models Available:	1.00 g	10 m/s ²
General purpose with 10-32 mtg thd	394B06	394A08
Structcel® Application	394B05	394A07
(Supplied accessories for 394B05 incl	ude Models 080A43	and

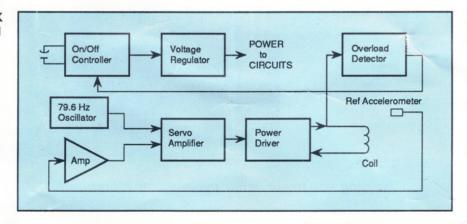
080A44 adaptor heads for mounting of Structcel sensors)

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	80A86 M5 x 0.8 female metric thread	
080A87	M6 x 0.75 female metric thread	

BLOCK DIAGRAM



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