

## Portable Handheld Shaker for Sensor Calibration

- *Verifies accelerometer and vibration system performance*
- *Switchable 1 g RMS or 1 g peak output*
- *Drives accelerometers weighing up to 250 grams*
- *Operates at 159.2 Hz*
- *Powered by battery; AC adaptable*
- *CE compliant*



### Introduction

The model 340SH is a small, self-contained handheld shaker designed for the rapid checking of accelerometers, monitoring systems, and recording systems. It provides a known, controlled, selectable RMS or peak vibration for verification of accelerometers weighing up to 250 grams. The shaker provides up to 1600 calibration cycles (based on 100 gram accelerometers) from its

self-contained battery power source. The automatic shutoff after a 1.5-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.

## Technical Specifications

### Dynamic Performance

- Frequency (fixed)  
159.2 Hz  $\pm 1\%$
- Acceleration 1.00 g  
(9,81 m/s<sup>2</sup>) RMS  $\pm 3\%$
- Transverse Amplitude  $\leq 3\%$
- Distortion 50 to 150  
grams load  $\leq 2\%$  150 to  
250 grams load  $\leq 3\%$

### Environmental

- Operating Temperature  
Range  $\pm 15$  to  $+130^\circ\text{F}$   
( $-10$  to  $+55^\circ\text{C}$ )

### Electrical

- Ramp-Up Time  $\leq 3$  sec
- Internal Power (4) "AA"  
batteries
- Automatic

### Standard Accessories:

- Supplied Accessories Kit
- 2 Mounting Studs (1/4-2B  
to 1/2 - 2B)
- 1 Mounting Stud (10-32 to  
1/4-28)
- 1 Mounting Stud (1/4-2B  
to M6 x 1)
- 1 100 Gram Mass
- 1 Carrying Case
- 1 Battery Pack
- 1 Storage Box

### Emerson Process Management

#### Asset Optimization Division

835 Innovation Drive  
Knoxville, Tennessee 37932  
T (865) 675-2400  
F (865) 218-1401  
[www.mhm.assetweb.com](http://www.mhm.assetweb.com)

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