

Portable vibration reference source

REF1500

The ReferenceMate portable reference source enables users in the field to easily verify sensor performance and the integrity of the cabling between the sensor and the online system. A built-in reference accelerometer assures that a 1 g test level is maintained for sensors weighing up to 250 grams.

SPECIFICATIONS

Operating frequency, $\pm 1\%$	159.2 Hz
Acceleration output¹, $\pm 3\%$	1.0 g (9.81 m/s ²)
Velocity output¹	0.39 ips (9.8 mm/s)
Displacement output¹	0.39 mils (9.8 μ m)
Operating cycles, 250 gram load	80
Transverse amplitude	$\leq 3\%$
Mounting thread	1/4-28 female
Mounting torque, max	10 in-lb (112 N-cm)
Distortion, 0-250 gram load	$\leq 7\%$
Maximum load	250 grams; if load is <75 grams, REF004 ballast mass required
Automatic switch off time	approx 80 seconds
Temperature range	+15° to +130°F (-10° to +55°C)
Ramp-up time	≤ 3 sec
Internal battery	4x AA batteries, included
DC power	12 VDC $\pm 5\%$, 1.67 A, center positive
Shaker dimensions	diameter: 2.2 in. (5.6 cm) height: 7.8 in. (19.8 cm)
Weight, with batteries	900 grams (32 oz)
Case material	6061-T6 aluminum

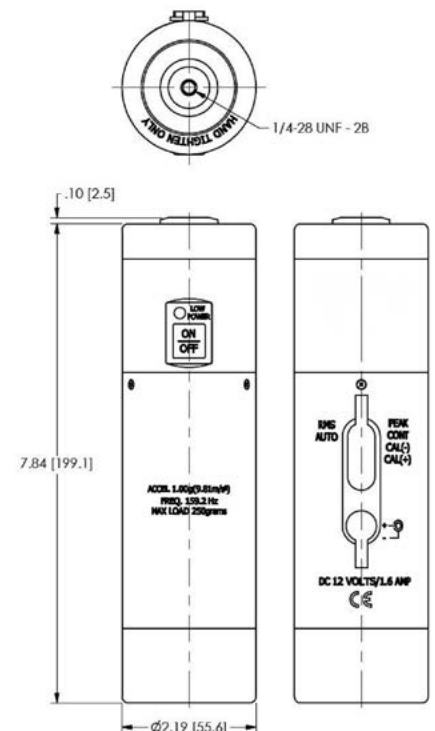
Notes: ¹ RMS or Peak

Included accessories: 1/4-28 mounting stud, M6 mounting adapter stud, 10-32 mounting adapter stud, REF004 ballast mass (for sensors <75 grams)

Optional accessories: REF001 universal mounting kit, REF002 metric mounting kit, TAA01 triaxial accelerometer angled adaptor, REF003 AC power supply

KEY FEATURES

- Quickly and easily verify sensor operation and cable integrity in the field
- Protective sleeve shields from simple damage to the unit
- Low-power LED indicator
- User selectable measurement type (RMS or Peak)
- Self-verification test points to ensure proper calibrated output
- Manufactured in an approved ISO 9001 facility



Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.