PORTABLE VIBRATION CALIBRATOR

Revision: C ECN#:

GENERAL

Frequency Range (operating, 100 gram payload) Maximum Amplitude (100 Hz, no payload)

7 Hz-10 kHz 20 g pk 15 in/s pk

420 - 600,000 CPM 196 m/s² pk

50 mils pk-pk

380 mm/s pk 1.27 mm pk-pk

800 gram

ACCURACY OF READOUT (MEASURED WITH 10 GRAM QUARTZ REFERENCE ACCELEROMETER)

Acceleration (30 Hz to 2 kHz) ±3% Acceleration (7 Hz to 10 kHz) ±1 dB Velocity (10 Hz to 1000 Hz) ±3% +3% Displacement (30 Hz to 150 Hz) Amplitude Linearity (100 gram payload, 100 Hz) < 1% up to 10 a pk

Waveform Distortion (100 gram payload, 30 Hz to 2 kHz) < 5% THD (typical) up to 5 g pk

UNITS OF READOUT

Maximum Payload^[1]

 m/s^2 Acceleration (peak/RMS) in/s Velocity (peak/RMS) or mm/s Displacement (peak to peak) mils μm CPM Frequency Hz mV/EU^[2] Test Sensor Sensitivity

INPUT/OUTPUT

Voltage or ICP®[3] Test Sensor In Bias Fault Indication (ICP® Sensors) Yes External Source In (Max) 1V AC RMS

Monitor Reference Out 10 mV/g (nominal), Buffered internal reference output

MEMORY

Up to 500 calibration records Storage Points Per Record 30 calibration data points Model number, serial number, Sensor Information Mounting orientation (x, y, z), user notes **USB Port** Export to flash drive (FAT 32) CSV (comma-separated values)

Export File Format

PHYSICAL

Dimensions (H x W x D) 22 x 30.5 x 28 cm 8.5 x 12 x 10 in Weight 18 lbs 8.2 kg 1/4-28

Sensor Mounting Platform Thread Size

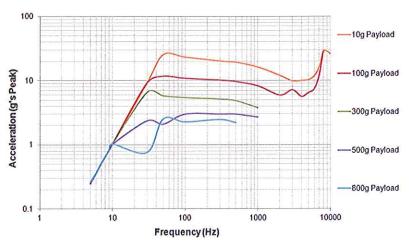
32°F-122°F 0°-50°C Operating Temperature

All specifications are at room temperature unless otherwise specified.

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In the interest of constant product improvement, specifications may change without notice.

Maximum Acceleration VS. Frequency



POWER REQUIREMENTS

Internal Battery (sealed gel lead acid) AC Power (for recharging battery) Operating Battery Life[4] 100 gram payload, 100 Hz, 1 g pk

12 VDC, 4 amp hours 110-240 Volts, 50-60 Hz

18 hours 100 gram payload, 100 Hz, 10 g pk 1 hour

ACCESSORY POUCH INCLUDES

PD-1320-01: Mounting Wrench

9100-PS01: Power Supply and Plug Adaptors

081B20: 1/4-28 to 1/4-28 Adaptor 081A08: 10-32 to 1/4-28 Adaptor 080A118: Mounting Pad

9110-USB: USB Flash Drive with Calibration Report Generation Worksheet

NOTES

[1] Operating range reduced at higher payloads. Reference manual for full details.

[2] EU can be [g], [m/s2], [in/s], [mm/s], [mils] or [µm].

[3] 5mA constant current excitation to ICP® (IEPE) sensor.

[4] As shipped from factory in new condition.

Project Engineer: Product Manager: Mkt Team Leader: MAP Date: 3/15 Date: 3/15/13 Date: 13

Spec Number: PS-0102



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