

Model Number
9100D

PORTABLE SHAKER TABLE

Revision: H
ECN #:

Frequency Range (operating, 100 gram payload) 5 Hz – 10 kHz
 Maximum Amplitude (100 Hz, no payload) 20 g pk
 15 in/s pk
 50 mils pk – pk
 300 – 600 k CPM
 196 m/s² pk
 380 mm/s pk
 1.27 mm pk – pk
 800 gram

Maximum Payload^[1]

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

Acceleration (10 Hz to 10 kHz) ±3%^[2]
 Acceleration (5 Hz to 10 Hz) ±5%^[2]
 Velocity (10 Hz to 1000 Hz) ±3%
 Displacement (30 Hz to 150 Hz) ±3%
 Amplitude Linearity (100 gram payload, 100 Hz) < 1% up to 10 g pk
 Waveform Distortion (100 gram payload, 30 Hz to 2 kHz) < 5% THD (typical) up to 5 g pk

UNITS OF READOUT

Acceleration (peak and RMS)	g	m/s ²
Velocity (peak and RMS)	in/s	mm/s
Displacement (peak to peak)	mils	µm
Frequency	Hz	CPM

Internal Battery (sealed solid gel lead acid) 12 VDC, 4 amp hours
 AC Power (for recharging battery) 110 – 240 VAC, 50 - 60 Hz
 Input Power Rating from charger 18 VDC, 1 A
 Operating Battery Life^[3] 18 hours
 100 gram payload, 100 Hz 1 g pk 1 hour
 100 gram payload, 100 Hz 10 g pk

TEMPERATURE

Operating 32° - 122° F 0° - 50° C

INPUT/OUTPUT

External Source In (Max) 1 VAC RMS
 Monitor Reference Out 10 mV/g (nominal) - Buffered internal reference output

NOTES

[1] Operating range reduced at higher payloads. Reference manual for full details.
 [2] Calculated by measuring the % difference between the known sensitivity of a reference accelerometer as calibrated by laser primary system per ISO 16063-11 and the measured sensitivity of same reference accelerometer when tested at the same points
 [3] As shipped from factory in new condition.

All specifications are at room temperature unless otherwise specified.

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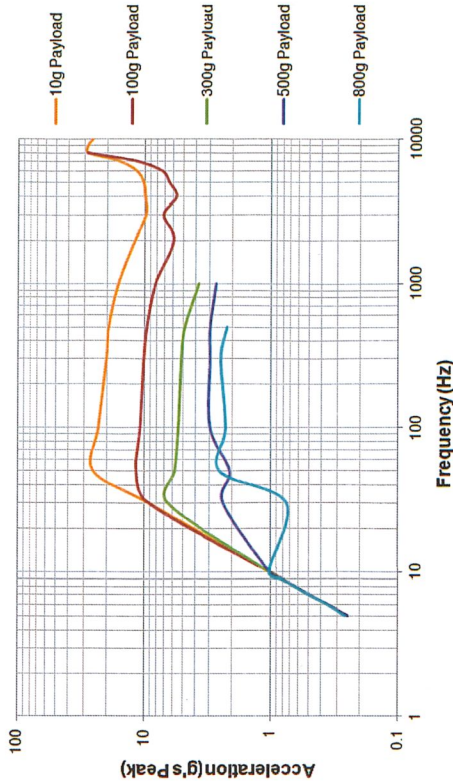
In the interest of constant product improvement, specifications may change without notice.



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Maximum Acceleration Vs. Frequency



PHYSICAL

Dimensions (H x W x D) 8.5 x 12 x 10 in 22 x 30.5 x 28 cm
 Weight 18 lb 8.2 kg
 Sensor Mounting Platform 1/4-28
 Thread Size 10-32 to 1/4-28 Adaptor

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

SUPPLIED ACCESSORIES

9100-CAL01: NIST traceable Certificate of Calibration, Metric & English Units, Accredited to ISO 17025 by A2LA

(OPTIONAL): Proximity probe adaptor kit, supports probes with common case threads ranging from M6 to 3/8 in. Includes Mitutoyo micrometer and nickel-plated 4140 steel target.

Project Engineer: <i>MA</i>	Product Manager: <i>S.A.A.</i>	Mkt Team Leader: <i>[Signature]</i>	Spec Number: PS-0093
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