Model Number 9000A

SMARTSINE™ CALIBRATION DRIVER

Revision:

FCN#:

INPUT/OUTPUT

Test Sensor In

Sensor Type Input Voltage (Max)

Reference Sensor In

Sensor Type Input Voltage (Max)

Reference Sensitivity

Bias Fault Indication (ICP Sensors)

Source Out

Monitor Reference Out

Electrical Connector (Input/Output)

Voltage or ICP® (IEPE) [1] 5 V pk [2]

ICP (IEPE) [1] ONLY

1 V pk [2]

Single point or curve (up to 60 points)

Sine wave form of 1 V pk amplitude Max [3]

Buffered reference output

BNC Jack

GENERAL

Operating Range [4] ADC Resolution

0.5 Hz-20 kHz (30-1200k CPM)

Maximum Testing Amplitudes

Ref Sensitivity	Vibration					
(mV/g)	g pk	in/s pk	mils pk-pk	m/s ²	mm/s pk	μm pk-pk
10	100	61.45	195.59	981	1561	4968
100	10	6.14	19.56	98	156	497

Ref Sensitivity	Sound Pressure Level	I
(mV/Pa)	dB ^[5]	Ī
` 12.5 ´	130	
50	115	

UNITS OF READOUT

Acceleration (pk or RMS) Velocity (pk or RMS) Displacement (pk to pk) Sound Pressure Level [5] Frequency

Test Sensor Sensitivity Shaker Displacement Limit Setting (Max) [7] [g]. [m/s²] [in/s], [mm/s] [mils], [µm]

[dB] Hz (CPM) mV/EU [6]

10 in pk-pk (254 mm pk-pk)

DATA MANAGEMENT

Storage Points Per Record Sensor Information

Export File Format

Up to 500 calibration records 30 calibration data points

Model number, serial number, mounting

orientation (x, y, z), and user notes Export calibration records to USB flash drive (FAT 32) in CSV (comma-separated values) format

POWER REQUIREMENTS

AC Power (for recharging battery) Input Power Rating from Charger Internal Battery (Li-ion) Operating Battery Life [8]

110-240 V. 50-60 Hz 18 VDC, 1 A 11.1 VDC, 2200 mAh

16 hours

PHYSICAL

Dimensions (H x W x D)

Weight Operating Temperature 4.7 x 9.8 x 11.8 in (12 x 25 x 30 cm) 7.8 lb (3.56 kg)

32 °F to 122 °F (0 °C to 50 °C)

SUPPLIED ACCESSORIES

Accessory Pouch Containing:

USB Flash Drive with Calibration Report Generation Worksheet Universal Power Supply (Power Charger) with Interchangeable Plug Adaptors

[1] 5 mA constant current excitation to ICP (IEPE) reference sensor

[2] Recommended SUT voltage > 20 mV pk; REF voltage > 4 mV pk

[3] 50 Ω output impedance

[4] Or limited to frequency range of reference sensitivity curve input

[5] Reference 20 uPa

[6] EU: [g]. m/s²], [in/s], [mm/s], [mils], [μm], or [Pa] for acoustics

[7] Actual maximum amplitude may be limited by exciter specifications and amplifier gain

[8] As shipped from factory in new condition

All specifications are at room temperature unless otherwise specified. ICP is a registered trademark of PCB Piezotronics, Inc.

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

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Project Engineer:

Date: 09 - 19 - 19

LJB

Product Manager:

Date: 9-19-19

SAM Team Leader:

Spec Number:

PS-0119

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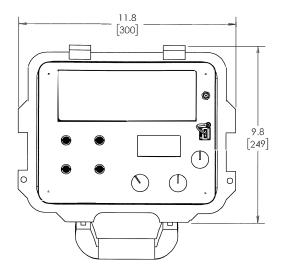
Model Number *9000A*

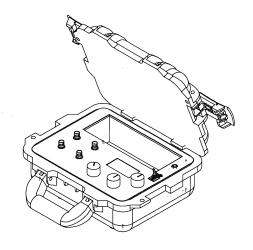
SMARTSINE™ CALIBRATION DRIVER

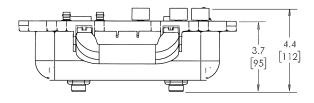
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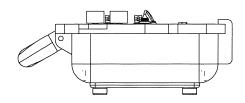
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ECN#:









Dimensions in inches [mm]

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