

Model Number

K9140D10

PORTABLE VIBRATION CALIBRATION SYSTEM

Revision: E

ECN#:

Components

C9110D-T
9155D-Laptop

9140-SW

9100-USB00

353B04
003C03

9101C

Portable Vibration Calibrator^[1]
 Windows Laptop PC with pre-installed TMS
 9155-PVC software, and MS Office.
 TMS 9155 software dedicated for direct
 connection to C9110D via USB
 TMS Data Transfer Cable. USB-A connector
 to USB-A connector.^[2]
 Verification Accelerometer
 10-32 to BNC cable
 Mounting Accessories Kit

Functionality

Sensor Types
 Sensor Operation Types
 Additional Sensor Operation Types

Frequency Range
 Test Types

Calibration Data Management
 Calibration Certificate Management
 Measurement Units Supported
 Standards Compliance
 Max Frequency Points
 Max Pass/Fail Criteria (per Axis)

Acceleration, Velocity
 ICP (IEPE), Charge
 Voltage^[3], Differential Charge^[3],
 Piezoresistive^[3], Capacitive^[3],
 5 to 10,000 Hz [Note: 100-gram payload]
 Frequency Sweep, Amplitude Sweep (aka
 linearity), Sensitivity @ Reference Frequency
 Microsoft Access
 Microsoft Excel
 Metric, English
 ISO 16063-21 (2003)
 200
 8: 6 Frequency Response
 1 Sensitivity @ Reference Frequency
 1 non-linearity

Performance

Measurement Uncertainty (k=2) ^[4] ^[5]

5 Hz ≤ f ≤ 10 Hz; ±4%
 10 Hz < f ≤ 30 Hz; ±3%
 30 Hz < f < 100 Hz; ±1.5%
 f = 100 Hz; 1.5%
 100 Hz < f ≤ 2 kHz; 1.5%
 2 kHz < f ≤ 10 kHz; 4%

NOTES:

- [1] Requires firmware 7.0 or higher for compatibility.
 [2] Non-TMS cables that may be available from retail suppliers present a danger that could result in hardware level damage to the USB
 port on PC and/or PVC. Always use TMS 9100-USB00.
 [3] Signal conditioning for these Sensor Operation Types is not included. However, they are supported in software.
 [4] See TMS document QS-P014 for most current values.
 [5] f denotes test frequency.

Supplied Accessories

081A08 10-32 UNF Mounting Stud
 081B20 1/4-28 UNF Mounting Stud
 9155-MNT06 1/4-28 male to 10-32 female
 081M165 M8 x 1.0 Mounting Stud
 080A109 Petro Wax
 080A80 Cyanoacrylate Adhesive
 080A90 Quick Bond Adhesive Gel
 081A27 5-40 Mounting Stud
 9155-MNT32 10-32 UNF Female Mounting Stud
 9155-MNT05 5-40 UNF Female Mounting Pad
 9155-MNT07 Adhesive Mounting Pad
 Silicone Gap Filling Mounting Grease, and Syringe
 Strain Relief Cable Adhesive
 Screwdriver

Optional Accessories

9100-PS01 Power supply / charger for Portable Vibration Calibrator, universal
 100-240 V, 50/60 Hz.
 9100-PPCBL01 Cabling for connection of Bently Nevada 3300 XL proximitors to
 portable vibration calibrator or volt meter.
 9100-MPPA01 Proximity probe adaptor kit, supports probes with common case
 threads ranging from M6 to 3/8". Includes metric micrometer and
 9100-PPA01 Proximity probe adaptor kit, supports common case threads from 5
 mm to 10 mm size probes, including common imperial threads.
 Includes brackets for securing common probes. Includes
 micrometer scaled in mils and 9100-PPA02.
 9100-PPASH Proximity probe mounting adaptor kit for probes installed inside a
 1/2" diameter housing, including all 8 mm designs.

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.



Project Engineer:

JLS

Product Manager:

HSD

SAM Team Leader:

DEG

Spec Number:

PS-0175

Date: 6/22/2026

Date: 7/14/26

Date: 7/16/26

Page 1 of 1

THE MODAL SHOP
 AN AMPHENOL COMPANY

10310 Aerohub Boulevard
 Cincinnati, OH 45215, USA

info@modalshop.com
 +1 513.351.9919

+1 800.860.4867
 Fax: +1 513.458.2172

SAM-F020 revC 10/20/20