

Precision Calibrator

FEATURES

- Portable, on-site calibration and servicing—accurate to 0.02% of selected range
- Eight selectable ranges: 0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, and 3.5 mV/V
- Three bridge impedance selections: 350, 700, or 1000 Ω
- Calibrate any strain gage based instrument or transmitter
- Rugged, impact resistant aluminum case

APPLICATIONS

- Testing, calibrating, and troubleshooting process weigh system instrumentation

DESCRIPTION

The Model 325 precision calibrator supplies high accuracy millivolt-per-volt level signals for testing, calibrating, and troubleshooting process weigh system instrumentation. Precise output reference selections from 0 to 3.5 mV/V are achieved by using a metal film resistor network, discrete wire wound resistors, and a 2-pole, 8-position rotary switch. Input and output impedance values of 350, 700, and 1000 Ω are selectable to simulate all typical strain gage transducers. Four permanent binding posts, integral to the rugged aluminum case, provide connection points for the instrument or transmitter.



A built-in vernier adjustment provides a mV/V output signal from 0 to 106% of the selected range. Full range simulation tests setpoint cutoffs, auto-tare, auto-zero, overload, and other crucial instrument functions without loading the system.

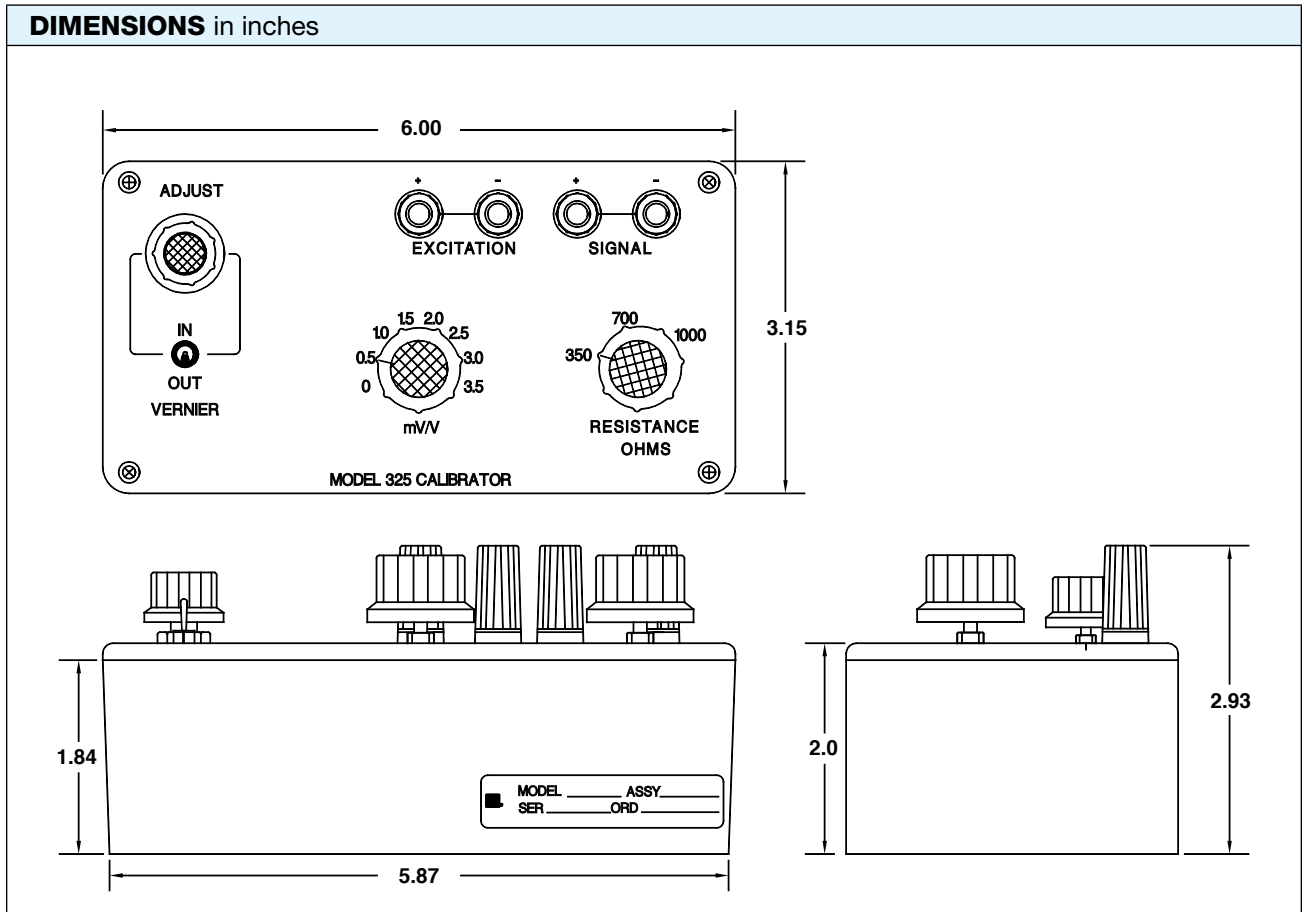
The Model 325 unit substitutes for single or multiple system transducers. Lightweight construction, compact size, and superior accuracy make the Model 325 calibrator an excellent choice for calibrating, spot-checking, or trouble shooting weigh systems in any environment.

SPECIFICATIONS

PARAMETER	VALUE
PERFORMANCE	
Output Accuracy	0.02% of selected range
Accuracy Stability (0.5 and 1 mV/V steps)	less than 0.01% in 24 hours less than 0.02% in 1 year
Zero Stability	less than 3 μ V
Span TC	\pm 10 ppm/ $^{\circ}$ C
Input Impedance (Excit.)	adjustable to \pm 0.05%
Output Impedance (Signal)	adjustable to \pm 0.08%
Output Ranges	8 steps: 0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, and 3.5 mV/V

PARAMETER	VALUE
Input Voltage Level	25 VDC maximum
Operating Temperature Range	32 $^{\circ}$ F to 120 $^{\circ}$ F (0 $^{\circ}$ C to 50 $^{\circ}$ C)
Vernier Range	up to 106% of selected step
Impedance Adjustmen	350, 700, or 1000 Ω
MECHANICAL	
Dimensions, LxWxH	6 \times 3.2 \times 1.8 in.
Unit Weight	15.7 oz

Precision Calibrator



BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly.



Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.