

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 3.5mV/V
- Three bridge impedance selections: 350, 700, or 1000 ohms
- Calibrate any strain gage based transducer instrument, transmitter, or indicator
- Rugged, impact resistant aluminum case

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 3.5mV/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 ohms 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.

APPLICATIONS

- Testing, calibrating, and troubleshooting process weigh system instrumentation

SPECIFICATIONS

PERFORMANCE

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

Input Voltage Level	25V do maximum
Operating Temperature	32 to 120 $^{\circ}$ F (0 to 50 $^{\circ}$ C)
Range	
Vernier Range	up to 106% of selected step
Impedance Adjustment	350, 700, or 1000 ohms

MECHANICAL

Dimensions (inches)	6 x 3.2 x 1.8 inches (LxWxH)
Unit Weight	15.7 ounces

DIMENSIONS in inches

