

Precision Calibrator



FEATURES

- Accurate to 0.05% of reading
- Precisely calibrates full bridge strain gage and transducer instrumentation
- Five ranges - 56 calibration points
- Test/confirm instrument peak/valley, auto tare, and auto zero circuitry

DESCRIPTION

The Model 625 Precision Calibrator is a compact, high-accuracy, portable resistance network specifically designed to simulate the output of full bridge strain gage type transducers. Through the use of a highly stable resistance network, the calibrator provides an accurate method of simulating a 120-ohm or 350-ohm transducer system. This circuitry provides 55 precision mV/V output signals in five ranges of 11 settings each.

When powered with a known regulated voltage, the calibrator can substitute for

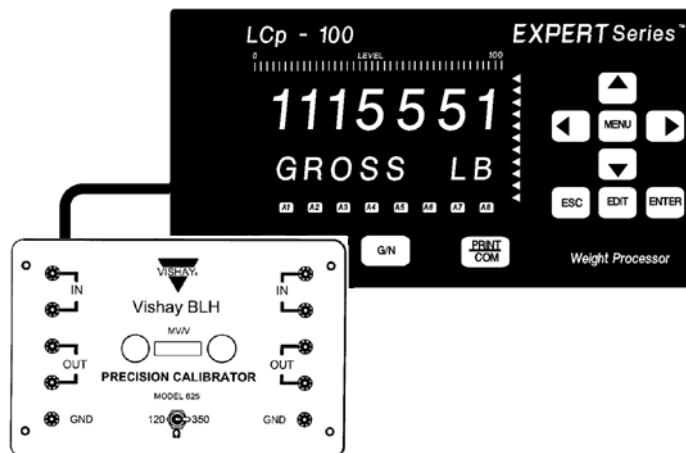
one or more transducers to check the calibration, linearity, sensitivity, or for general troubleshooting of an indicator, recorder, or a complete load or force measuring system.

The Calibrator can also be used with a known dc or ac supply for checking and calibrating any millivolt or millivolt/volt instrument.

APPLICATIONS

- Precise calibration for 120- and 350-ohm systems

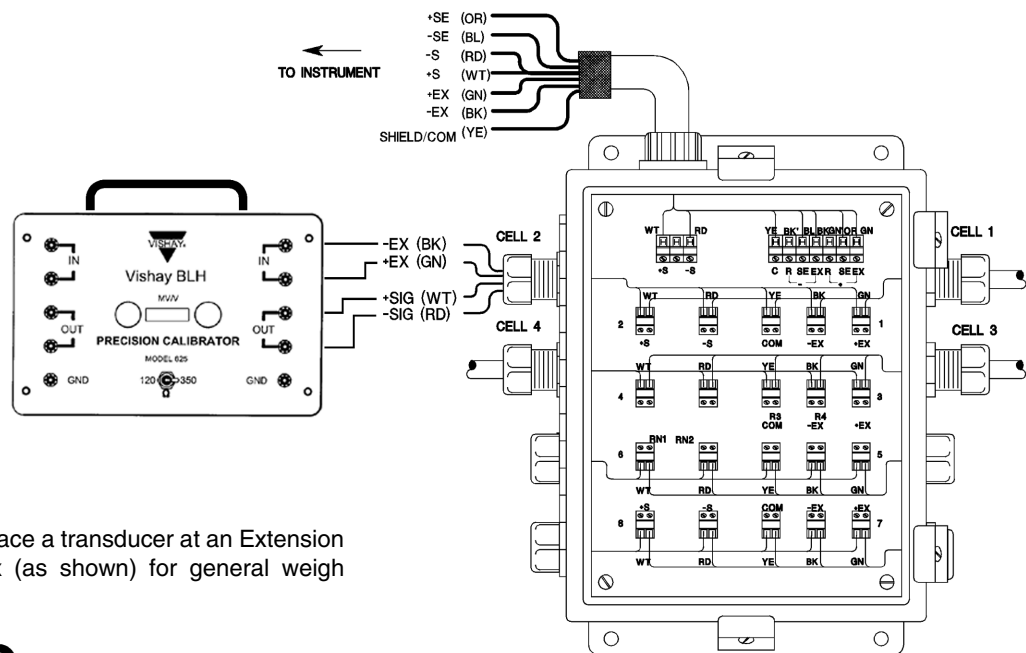
CONFIGURATION



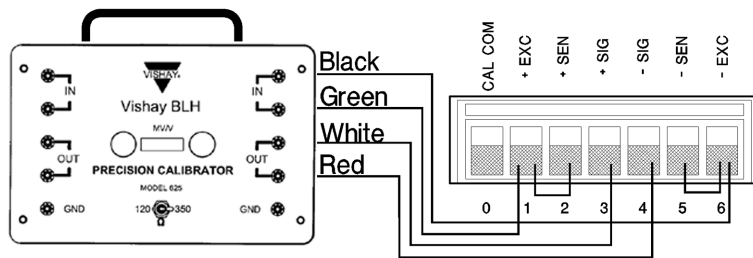
SPECIFICATIONS

<p>Output Accuracy</p> <p>Output Ranges</p>	<p>Each point accurate to 0.05% of reading, or 0.02% of range, or 0.003mV/V, or +/-2microvolts, which ever is greater</p> <p>0-0.5mV/V in 10 steps of 0.05mV/V each</p> <p>0-1 mV/V in 10 steps of 0.1 mV/V each</p> <p>0-2mV/V in 10 steps of 0.2mV/V each</p> <p>0-5mV/V in 10 steps of 0.5mV/V each</p> <p>0-10mV/V in 10 steps of 1.0mV/V each</p>	<p>Zero Stability</p> <p>Calibration Stability</p> <p>Bridge Resistance</p> <p>Voltage Level</p> <p>Operating Temp.</p> <p>Dimensions</p> <p>Weight</p>	<p>Less than 2 microvolts</p> <p>Less than 0.02%/year</p> <p>120 ohms or 350 ohms Input</p> <p>120 ohms: 0-12Vdc; 350 ohms 0-25Vdc</p> <p>0 - 120°F (18 - 49°C)</p> <p>6 x 9 x 6in. HxWxD (152.4 x228.6 x 152.4mm)</p> <p>3.75lbs (1.7kg)</p>
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DIMENSIONS



The Model 625 can replace a transducer at an Extension Box or a Junction Box (as shown) for general weigh system troubleshooting.



The Model 625 connects directly to the process weighing instrument load cell port for system calibration and/or linearization. Note jumper additions for sense lines in this configuration.

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

Disclaimer

All product specifications and data are subject to change without notice.

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