

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

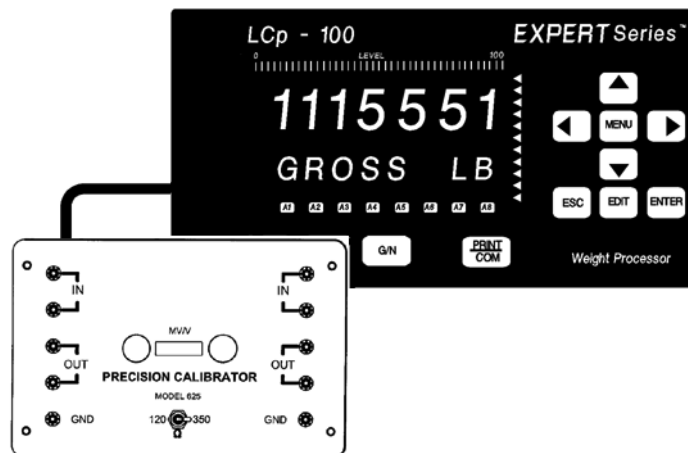
one or more transducers to check the calibration, linearity, sensitivity, or for general troubleshooting of an indicator, recorder, or a complete load or force measuring system.

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

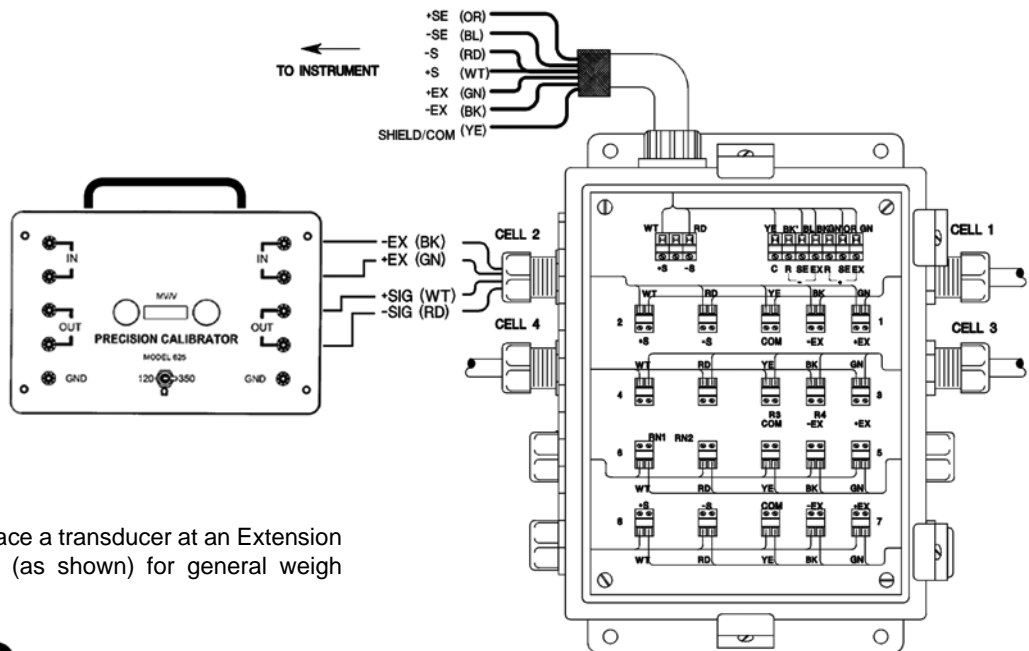
CONFIGURATION



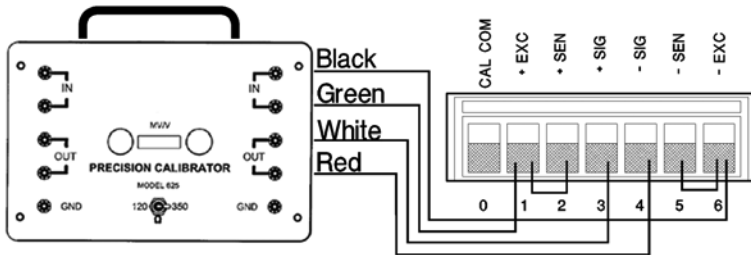
SPECIFICATIONS

<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 0-1 mV/V in 10 steps of 0.1 mV/V each 0-2mV/V in 10 steps of 0.2mV/V each 0-5mV/V in 10 steps of 0.5mV/V each 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.