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Transducer Simulator Manual

Operating Manual

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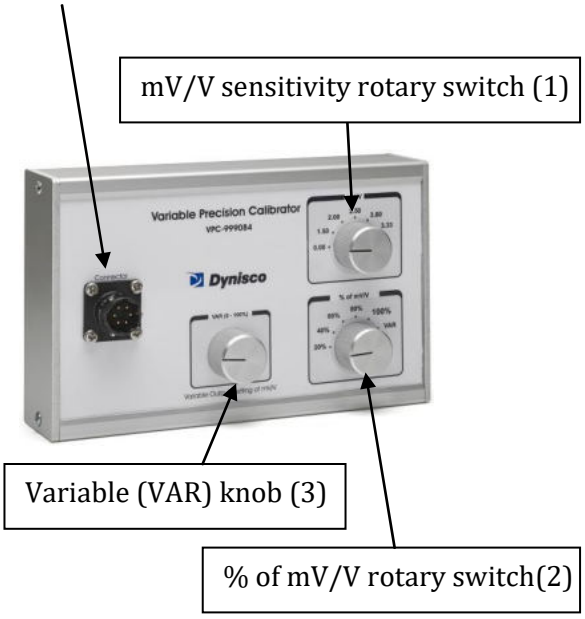
Introduction

The Dynisco Transducer Simulator is designed to be a direct electrical substitute for Dynisco pressure/force transducers. The simulator allows rapid troubleshooting and calibration of signal conditioners and indicators, which are compatible with a 350-ohm strain gage.

Electrical Connections

PT02A-10-6P pin	Function
A	Signal +
B	Signal -
C	Excitation +
D	Excitation -
E & F	No Connection

Operation (Rotary Switch Positions)



Disconnect present wiring at the transducer end of the cable assembly. Attach connector on the transducer simulator. Select the 0.00 mV/v position on rotary switch (1) labeled mV/V. Initiate zero calibration on the attached display or controller.
If you are unsure of the calibration procedure, please refer to your user manual provided by the manufacturer.

Note: Most transducers have a sensitivity of 3 or 3.33 mV/V. Verify the sensitivity output of the transducer to be simulated before proceeding.

Set the mV/V sensitivity switch position (1) and % of mV/V switch (2) to simulate full scale output from the transducer. If the display or controller under calibration does not show the expected full scale output on the display, follow the manual's instructions to set the full span of the instrument.

Note: If the instrument has an automatic spanning feature using some other point as a calibration value, i.e.
80% internal rcal, select the same % equivalent position on the simulator.
At this point the instrument is now "zeroed" and "spanned". The rotary switch (2) labeled 20 – 100%
can now be used to verify the instrument's operation and linearity.

Operation (Variable Position and "VAR" knob) Switching the rotary switch to the position labeled "VAR" allows Infinite resolution between 0 - 100% adjustment using the rotary knob variable knob. Note that the knob is only operational when the % of mV/V rotary switch is in the "VAR" position.

Note: although the VAR knob may function in other mV/V sensitivity Selections, it is only calibrated 0-100% in the 3mV/V range.

Specifications

Accuracy	± 0.25% of indicated output
Configuration	350 Ohm Wheatstone Bridge
Bridge Resistance	Input: 350Ω ± 2%
Zero Balance	± 0.25% of full scale
Excitation	15Vdc, VRMS maximum