

## STRAIN GAGE TRANSDUCER SIMULATOR MODEL i100



- *Completely passive*
- *8 output steps from 0 to 5 mV/V and variable adjustment from 0 to 2 mV/V*
- *Pocket size – 2 3/4 x 1 7/8 x 6 3/4 inches*
- *Accuracy  $\pm 0.03\%$*
- *Temperature coefficient 6 ppm/F*
- *True reverse polarity switch*
- *Compatible with AC carrier & DC strain gage signal conditioner electronics*
- *Anodized aluminum case with baked matte black finish*

The i100 hand held simulator generates precise mV/V signals to help develop, “troubleshoot,” and calibrate strain gage signal conditioners, instruments, signal processors, and data loggers. Accuracy is  $\pm 0.03\%$ , temperature effects are 6 ppm/F, and zero balance is 0.0004 mV/V. Resistance of the i100 simulator is equivalent to a 350-ohm bridge. The i100 has 8 switch selectable output steps. Also, a vernier knob is provided to allow the user to continuously adjust the output from  $-2$  to  $+2$  mV/V. A convenient switch provides true reverse polarity. Connection to the i100 is made through either a PT style connector or 4 color-coded spring-loaded test clips. All critical internal contacts are gold plated. The i100 is compatible with AC carrier or DC strain gage signal conditioner electronics.

### Specifications

(Subject to change without notice)

Accuracy	$\pm 0.03\%$
Temperature Effect on Output	6 ppm/F
Temperature Range, operating	+15 to +125 F
Temperature Range, storage	-15 to +175 F
Excitation Voltage Input, typical	10 VDC or VAC rms
Excitation Voltage Input, maximum <sup>(1)</sup>	20 VDC or VAC rms
Zero Balance	0.0004 mV/V @ 72 F and 0 mV/V output
Output	0, 0.5, 1, 1.5, 2, 2.5, 3, and 5 mV/V switch selectable and vernier adjustment from $-2$ to $+2$ mV/V
Connection	PT02E-10-6P and separate 4 color-coded spring-loaded test clips
Dimensions	1.88 x 2.75 x 6.75 inches including dial and receptacle
Weight	12 oz
Construction	Extruded anodized aluminum with baked matte black finish

<sup>(1)</sup>Temperature gradients caused by higher excitation voltages may effect performance.