Sample Calculation

Pre-Calibration of Weight Indicator using Simulator

Load Cell Specifications:

Load Cell Capacity: 1000lbs Rated Output: 3mV/V Actual Output: 3.0015mV/V

1) Calculate Units Per mV

Load Cell Capacity = Units Per mV = 1000lbs = 333.1667lbs = 330.15mV/V

2) Calculate Units Per Step of Rotary Selection

Units Per mV X Rotary Selection

333.1667 X .2 = 66.63334

Results:	Rotary Selection	Reading on Weight Indicator
	0.0	000.00000
	0.2	066.63334
	0.4	133.26668
	0.6	199.90002
	0.8	266.53336
	1.0	333.16670
	1.1	399.80004
	‡	‡
	3.0	999.50010

Connect Excitation and Signal Terminals to Weight Indicator
 Use Sense leads from indicator when possible
 Connect +Sense to +EXC Terminal Post
 Connect -Sense to -EXC Terminal Post

- 4) Power Up Weight Indicator and allow 5 to 10 minutes warm up time.
- Refer to Weight Indicator's Service Manual and follow calibration instructions using the results from Steps 1 and 2

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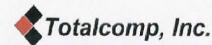


TRANSDUCER SIMULATOR



Model TS-16V

Made in the U.S.A.



99 Reagent Lane
Fair Lawn, NJ 07410
Fax (201) 797-2287
Toll Free Fax (888) 797-2288
Phone (201) 797-2718
Toll Free Phone (800) 631-0347
Email sales@totalcomp.com
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Product Specifications

Operation & Controls

Model#:

TS-16V

Impedance:

350 ohms nominal

Output Ranges: Fixed rotary switch

0 to 3 mV/V in 15 steps of .2 mv/v 10 turn vernier with locking graduated dial

OFF:

Rotary selection + 0.0 mV/V

FINE:

Rotary selection - 0.01 mV/V to +0.2 mV/V

MEDIUM: Rotary selection - 0.04 mV/V to +1.0 mV/V

COARSE: Rotary selection - 0.08 mV/V to +3.0 mV/V

Accuracy:

Typical

Max

+ 0.007% of full scale

± 0.015% of full scale

± 0.00021 mv/v

± 0.00045 mv/v

or ±1 microvolt, whichever is greater

Zero Offset:

Typical

Max

± 0.00009 mv/v

+ 0.0005 mv/v

Temp. Coefficient: ± 5 PPM/°C

Calibration:

This instrument has been calibrated using standards with accuracies

traceable to the National Institute of Standards and Technology, derived from natural physical constants, derived from ratio

measurements, or compared to consensus standards.

Excitation:

15v ac/dc max (43.75 - 350 ohm load)

Termination:

Binding posts - accepts standard banana plug or up to No. 14 wire

Weight:

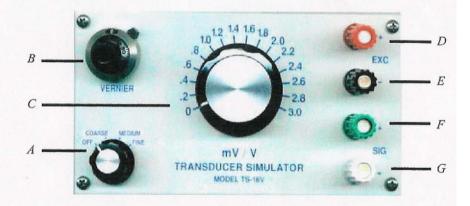
1Lbs.

Dimensions:

5.9"L x 3.2"W x 2.75"H

Enclosure:

ABS Thermoplastic Case with Aluminum lid



A - Vernier Selection

OFF: Rotary selection with Calibrated Output FINE: Rotary selection - 0.01 mV/V to +0.2 mV/V MEDIUM: Rotary selection - 0.04 mV/V to +1.0 mV/V COARSE: Rotary selection - 0.08 mV/V to +3.0 mV/V

B - Locking Vernier Dial

10 Turn adjustment of selected ranges listed above

C - Rotary Selection

Fixed Calibrated steps of 0.2mV/V from 0 to 3.0mV/V

D-+Excitation Input

E -- Excitation Input

F-+Signal Output

G -- Signal Output