

Load Cell Central

1-800-LOADCEL

LOAD CELL SIMULATOR Model: CFS-6



Made in the U.S.A.

1-800-562-3235

570-265-5015

FAX: 570-265-5148

www.800LOADCEL.COM

Email: sales@800loadcel.com

Product Specifications

Model#: CFS-6

Impedance: 350 ohms nominal

Output Ranges: *Fixed rotary switch*

Accuracy:	<i>Typical</i>	<i>Max</i>
	+ 0.007% of full scale	+ 0.015% of full scale
	+ 0.00021 mv/v or +1 microvolt, whichever is greater	+ 0.00045 mv/v

Zero Offset:	<i>Typical</i>	<i>Max</i>
	+ 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.*

A Test Uncertainty Ratio of at least 4:1 is maintained, and complies with applicable requirements of ANSI/NC SL 2540-1, ISO 9002, and MIL-STD-45662A.

Excitation: 15v ac/dc max

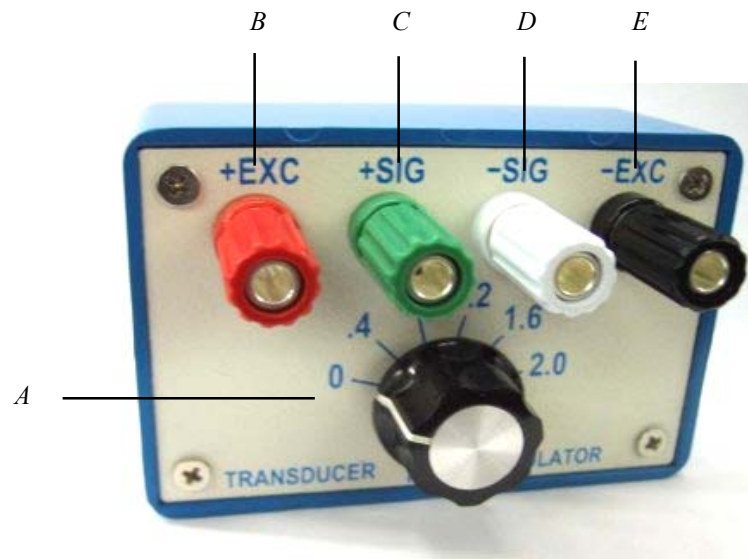
Termination: Binding posts - accepts standard banana plug or up to No. 14 wire

Weight: 1Lb.

Dimensions: 3.25"L x 2.25"W x 2.5"H

Enclosure: Flame retardant ABS plastic

Operation & Controls



A: Rotary Selection

Fixed Calibrated steps of 0.4mV/V from 0 to 2.0mV/V

B: +Excitation Input

C: +Signal Output

D: -Signal Output

E: -Excitation Input

Sample Calculation

Pre-Calibration of Weight Indicator using Simulator

Load Cell Specifications: Load Cell Capacity: 1000lbs
Rated Output: 2mV/V
Actual Output: 1.9915mV/V

1) Calculate Units Per mV

$$\frac{\text{Load Cell Capacity}}{\text{Actual Output}} = \text{Units Per mV} \quad \frac{1,000\text{lbs}}{1.9915\text{mV/V}} = 502.134\text{lbs}$$

2) Calculate Units Per Step of Rotary Selection

$$\text{Units Per mV} \times \text{Rotary Selection} \quad 502.134 \times 0.4 = 200.8536$$

Results:	Rotary Selection	Reading on Weight Indicator
	0.0	000.0000
	0.4	200.8536
	0.8	401.7072
	1.2	602.5608
	1.6	803.4144
	2.0	1,004.268

3) 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.

5) Refer to Weight Indicator's Service Manual and follow calibration instructions using the results from Steps 1 and 2

This document contains proprietary information and may not be copied in whole or part without express written consent of Load Cell Central.

Load Cell Central has exercised all possible care in the preparation of this manual and specifications contained herein. However, Load Cell Central is not responsible for any inaccuracies and reserves the right to make changes without notice.

<http://www.800LOADCEL.COM> Email: sales@800loadcel.com

Copyright © 2001-2008 Load Cell Central All rights reserved