

Analogue Load Cell Calibration Simulator

Features

- Rapid and accurate calibration of strain gauge instrumentation
- Die-cast Enclosure
- No drift, either short or long term
- Switch Selection of five commonly used strain gauge resistance values from 120 to 1000 Ω



Introduction

The simulator employs a number of precision resistors interconnected in a specially designed mesh network, simulating the input and output characteristics of a bridge circuit without introducing the drift problems of the latter.

These units may be used to calibrate readout systems and eliminate completely any possible error due to tolerances, ambiguity, miscalculation, etc, which can arise with spot calibrations furnished by otherwise employed method of shunting one bridge arm with a high value resistor.

Specifications

Parameters

Equivalent Bridge Resistance	Switch Selection of 120, 240, 350, 700 or 1000 Ω
Tolerance	$\pm 5\%$
Output Range	Switch selection of eleven positions: 0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.6, 2.0, 2.5, 3.0 All Settings are dual polarity, selected by a \pm switch. Standard units are adjusted to a gauge factor of 2.00
Gauge Factor	Approximately $\pm 0.5\%$ of setting
Output Accuracy	Terminals are clearly marked and colour coded according to the widely adopted code of American origin.
Connection	The terminals for the wire ends, also accepting standard 4mm plugs, are coded as follows: P1 Red Input P2 Blue Input S1 Yellow Output S2 Green Output Black Case
Enclosure	Robust die-cast aluminum box
Dimensions	Casing size: 92 x 118 x 58mm approximately Overall Size: 120 x 118 x 80mm approximately
Finish	Blue stove enamel with chrome handle

In the interests of continued product development, Procter & Chester Measurements Limited reserves the right to alter product specifications without prior notice.