



Multi-Function Loadcell Calibrator



Loadcell Display

Test Loadcell

Test Insulation

The CALOG - LC II is a portable, multi-function, precision instrument for strain gauge loadcell system testing and calibration. This model now includes the powerful ARM processor, a display function (ideal for portable scales or field readings), an SD card for datalogging, a USB port for connection to a computer for certificates or spreadsheets and longer lasting Lithium-Ion battery pack. Supplied complete with carrying case, charger and leads.

LOADCELL DISPLAY: mass, force, strain or torque from loadcells. Set mV/V, range, decimal points and units. Zero and span trim available. Selections for tare, peak hold and auto zero maintenance. Can be used for one 350 Ohm or three 1000 Ohm loadcells.

TEST LOADCELL: connect the loadcell leads to spring terminals and select test to get a readout of 4 or 6-wire, zero balance, input and output resistance and bridge balance. This is an ideal, time saving way to field test individual loadcells in position.

TEST INSULATION: connect leads to screen, housing and gauge to get a 50V insulation test between each in megohms. This test will show up water ingress that can cause loadcell measurement errors.

MEASURE: high accuracy measurement of millivolts with a secondary display of excitation voltage and milliamps for loadcell systems. Use this function to compare the actual loadcell readings with amplifier outputs or display readings for fault finding.

SOURCE: high accuracy millivolt injection with display of excitation voltage and mA output for workshop or field calibration of amplifiers and indicators.

SIMULATE: for sourcing milliamps into remote displays or SCADA systems. The CALOG - LC II display can be in mA or mass equivalent.

CONVERT: Feature changes between different mass units. (i.e grams, Newton, Ton etc.)

HELP: gives you connection diagrams for each application, like having a built-in manual.

MEASURING

	ANALOGUE INPUT RANGES	IMPEDANCE	ACCURACY	RESOLUTION
LC Display	-5 to 35mV	min 300Ω	0.01%FS	5 Digit
Bridge balance	-5 to 10mV/V	> 1MΩ	0.02mV/V	0.001mV/V
Resistance	0 to 2000		0.03%FS	0.1Ω
Millivolt	-4.5 to 35mV	> 1MΩ	0.01%FS	0.001mV
Voltage	0 to 20V	>110kΩ	0.01%FS	0.001V
Current	0 to 24mA	±17Ω	0.02%FS	0.001mA
(Isolated, max 100 V)				
Insulation (50 V)	0 to 1000MΩ		5%FS	1MΩ

SOURCING

	ANALOGUE OUTPUT RANGES	MAX LOAD	ACCURACY	RESOLUTION
Millivolts	-5 to 50mV	min 500Ω	0.01%FS	0.001mV
Millamps	0 to 24mA	max 600Ω	0.01%FS	0.001mA

INCLUDED ACCESSORIES

HW447 - Red Safety Test Lead
 HW448 - Black Safety Test Lead
 BA042 - Li-ion Battery Pack
 HW418 + HW422 - Mains Charger
 HW033 - Rubber Boot
 HW180-A - Plastic Kit Case

RECOMMENDED ACCESSORIES

RAL-CIG - 12Vdc Charger (Car Lighter)



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