



## 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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