



Load Cell Calibrator



Load cell Display

Test load cell

Test Insulation

CALOG - LC II is a portable, multi-function, precision instrument for strain-gauge load cell system testing and calibration. This model includes a powerful ARM processor, a display function for portable scales and field readings, an SD card for datalogging, a USB port for connection to a computer for certificates or spreadsheets and long-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 load cell 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 load cells 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 load cell measurement errors.

MEASURE: high accuracy measurement of millivolts with a secondary display of excitation voltage and milliamps for load cell systems. Use this function to compare the actual load cell 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 (eg, grams, Newton, Ton etc).

HELP: displays 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)

