

# Load Cell Central

1-800-LOADCEL

## CALOG-LC Load Cell Calibrator



The CALOG-LC is a hand-held precision calibrator specifically designed for load cell testing including insulation breakdown weighing system measurement, electrical pre-calibration or simulation. This unit is rugged, portable, lightweight and user friendly.

Simply connect a loadcell (or strain gauges in a Wheatstone bridge) to the spring terminals and press 'test'... The back lit graphic display will show four or six wire, zero balance, input and output resistance and bridge balance.

Connect leads to the housing and screen and press 'insulation test' for a 50 volt dc test to display bridge to housing, bridge to screen and housing to screen insulation in megohms.

For weighing system measurement, connect the test leads to the loadcell output to show millivolts. Alternatively include excitation measure or value and set up to display mass in a variety of selectable units. The load cell signal conditioner output milliamps can also be selected for simultaneous display.

Weighing systems electrical pre-calibration can be carried out by supplying millivolts for the load cell signal conditioner or indicator. By including excitation measurement or value, setting the sensitivity (mV/V) and selecting the weight units for the display. Output milliamps can also be selected for display.

Finally, the calibrator can simulate a load cell signal conditioner by supplying milliamps for a load cell display, PLC, or scada system. The display can be in mA or set to display mass and output.

### FEATURES

LC-TEST

50V

mV

V

mA

- Loadcell test, 50V insulation test and system calibrator in one unit.
- Rugged housing with rubber protection cover and carrying case
- Rechargeable Nickel Metal Hydride batteries, charger and battery management system
- Precision mV and mA measurement and source circuits
- Help menu for cable connections
- Conversion tables for units of mass

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	0 to +50°C
Service temperature range	-5 to +55°C
Storage temperature range	-20 to +55°C
Humidity	< 85% non-condensing

## MECHANICAL SPECIFICATIONS

Dimensions (with the boot on)	3.35" x 6.14" x 1.65", IP54 rating (dust and splash proof)
Dimensions (without boot)	3.03" x 5.71" x 1.34", IP54 rating (dust and splash proof)
Protection	UL 94 V-0 flame retardant ABS plastic with rubber boot
Weight	0.75 pounds

## GENERAL SPECIFICATIONS

Display	5.04 X 2.52" graphics display with backlight LED
Keypad	16 Key tactile with embossed buttons
Batteries	NiMH battery pack with temperature protection
Battery Life	Approx. 4 Hours

## ERROR MESSAGES

Over range	^^^^ with audible warning
Under range	vvvvvv with audible warning
mA loop error	"loop error" with audible warning
mA loop ohms too high	"check loop" with audible warning

## MEASURING RANGES

	Range	Impedance	Error limits	Resolution
Bridge balance	-5 to 10.000mV/V	> 1 M $\Omega$	0.02mV/V	0.001mV/V
Resistance	0 to 2000.0 $\Omega$		0.03%FS	0.1 $\Omega$
Millivolt	-5 to 35.000mV	> 1 M $\Omega$	0.005%FS	0.001mV
Voltage	0 to 20.000V	> 110k $\Omega$	0.005%FS	0.01V
Current	0 to 30.000mA	$\pm$ 17 $\Omega$	0.01%FS	0.001mA
Insulation	0 to 5000M $\Omega$		1%FS	1 M $\Omega$

## SOURCE RANGES

	Range	Impedance	Error limits	Resolution
Millivolts	-5 to 35.000mV	min 100 $\Omega$	0.005%FS	0.001mV
Milliamps	0 - 24.000mA	max 600 $\Omega$	0.01%FS	0.001mA

## WARRANTY

This product is guaranteed against faulty workmanship or defective material, for a period of one year from date of delivery. We undertake to replace without charge all defective equipment which is returned (transportation costs prepaid to the factory) during the warranty period provided there is no evidence that the equipment has been abused or mishandled in any way.