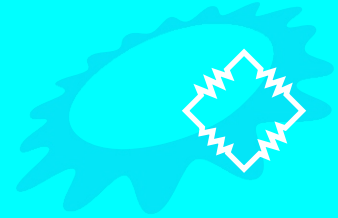


CALOG - LC



The *CALOG - LC* is a hand-held precision calibrator specifically designed for loadcell system 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 gauge wheatstone bridge) to the spring terminals and press 'test'... The back-lit graphic display will show four or six wire, zero balance, in and output resistance and bridge balance.

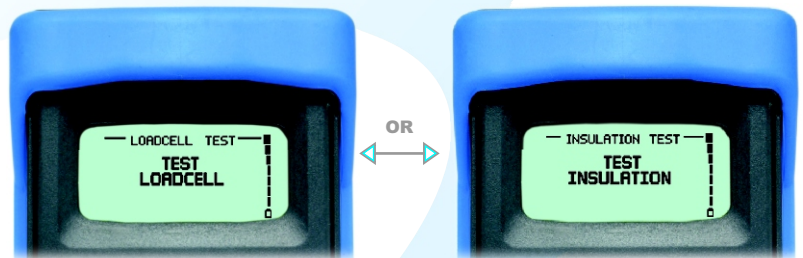
Connect the loadcell screen and wire the housing to the spring terminals and press 'insulation test' for a 50 volt dc test. Displays bridge to housing, bridge to screen and housing to screen insulation in megohms.

For weighing system measurement, connect the test leads to the loadcell output to show millivolts measurement.

Alternatively include excitation measurement or value and set up to display mass in a variety of selectable units. A loadcell transmitter output in milliamps can also be selected for simultaneous display of mass, mV, excitation and mA.

Weighing systems electrical pre-calibration can be carried out by injecting millivolts into the loadcell transmitter or indicator. By including excitation measurement or value, setting the sensitivity (mV/V) and units, the main display can indicate mass. Output milliamps can also be selected for display.

Finally, the calibrator can simulate a loadcell transmitter by injecting milliamps into a loadcell display or SCADA system. The display can be in mA or set to display mass and output.



MEASURING

LC-TEST

50V

mV

V

mA

ZERO BALANCE

ANALOGUE INPUT RANGES

	RANGE	IMPEDANCE	ERROR LIMITS	RESOLUTION
Bridge balance	-5 to 10.000mV/V	>1 M Ω	0.02mV/V	0.001mV/V
Resistance	0 to 2000.0 Ω		0.03%FS	0.1 Ω
Millivolt	-4.5 to 35.000mV	>1 M Ω	0.005%F Ω	0.001mV
Voltage	0 to 20.000V	>110k Ω	0.005%FS	0.01V
Current	0 to 24.000mA	\pm 17 Ω	0.01%FS	0.001mA
Insulation	0 to 5000M Ω		1%FS	1 M Ω

SOURCING

ANALOGUE OUTPUT RANGES

	RANGE	IMPEDANCE	ERROR LIMITS	RESOLUTION
Millivolts	-4.5 to 35.000mV	min 500 Ω	0.005%FS	0.001mV
Milliamps	0 - 24.000mA	max 600 Ω	0.01%FS	0.001mA

CALOG Calibrators

The CALOG range of process instrumentation calibrators are designed for servicing, repairs in the workshop and the plant environment. They are tough, sophisticated precision instruments that are portable, compact and user-friendly.

Robust enough to withstand the rigors of most industrial environments, they are powered by long-life Nickel metal hydride batteries, monitored by 'fuel gauges' and incorporate a clear, back-lit graphic display.

For quick source value set-up, the CALOG uses the "key-per-digit" numeric setting feature that enables the user to scroll each digit up or down.

The graphic display can be selected to display the measured value or trend with programmable time base.

Features

- Small, rugged, handheld with a protective rubber cover.
- Graphic display of measured value, percent and battery status
- Contain serial technology components for compact size, accuracy and reliability
- Programmable auto-off, restart at last setting and selectable display resolution
- NiMH Battery pack, charger, carry case, and test leads supplied as standard
- 1 year guarantee

Environmental

- | | | |
|--------------------------|-----------------------------|---------------------|
| <input type="checkbox"/> | Operating temperature range | 0 to +50°C |
| <input type="checkbox"/> | Storage temperature range | -20 to +55°C |
| <input type="checkbox"/> | Humidity | <85% non-condensing |

Mechanical Specifications

- | | | |
|--------------------------|----------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> | Dimensions (with the boot on) | 85 x 155 x 43mm, IP54 rating (dust and splash proof) |
| <input type="checkbox"/> | Dimensions (without the boot on) | 77 x 145 x 34mm, IP54 rating (dust and splash proof) |
| <input type="checkbox"/> | Protection | UL 94 V-0 flame retardant ABS plastic with rubber boot |
| <input type="checkbox"/> | Weight | 340g |

General Specifications

- | | | |
|--------------------------|--------------|---------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | Display | 128 x 64 graphics display with back-lit LCD |
| <input type="checkbox"/> | Keypad | 16 Key embossed buttons |
| <input type="checkbox"/> | Batteries | NiMH battery pack with temperature sensing |
| <input type="checkbox"/> | Battery life | Approx. 10 Hours, loop power enabled sourcing 12mA
Approx. 50 Hours, loop power disabled |

Error messages

- | | | |
|--------------------------|----------------------|---------------------------------------------|
| <input type="checkbox"/> | Over range | ^^^ with audible warning |
| <input type="checkbox"/> | Under range | vvv with audible warning |
| <input type="checkbox"/> | mA loop error | "loop error" with audible warning |
| <input type="checkbox"/> | mA loop ohms to high | "check loop Ω " with audible warning |

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