

Load Cell Calibrator



FEATURES

- Ten calibration registers with 10 point linearization curves
- BLH Quick Cal, 10 point deadload, or 10 point data sheet calibration available for each register
- An additional register reads live load cell mV/V
- Display 'Hold" function
- Optional 16 bit analog output configurable for each register
- · Peak and valley capability for each register

DESCRIPTION

The LCc-II load cell calibration indicator uses microprocessor technology to store ten individual, ten point linearized, load cell calibration curves. This capability allows this device to be used as a calibration force measurement indicator with up to ten different load cells. In addition, the LCc is pre-configured at the factory to read actual load cell mV/V outputs for use as a measurement standard with virtually any load cell or other Wheatstone bridge based transducer. For portability, a ruggedized enclosure with transducer selection switch and carry handle is provided. If documentation is required, units have a serial printer communication interface.

Hot key displays provide instant access to cell mV/V output, peak, valley, zero, and

tare values. To check calibration, three standard values are switch selectable along with a fourth provision for a user supplied resistor. Rear panel tension or compression selection reverses polarity if needed. Signal communication is available in 16 bit analog output and RS-422/485 digital formats. The RS-422 signal can be used for printouts or a full, bi-directional PC interface.

When combined with master (NIST calibrated) load cells, the LCc-II becomes a highly accurate system for checking and calibrating other force and weight measurement equipment.

APPLICATIONS

- · Force calibration systems
- Dynamometers
- Test standards

CONFIGURATION



Load Cell Calibrator



SPECIFICATIONS

Performance

Resolution **Displayed Resolution** Conversion Speed **Displayed Sensitivity** Noise

Full Scale Range Dead Load Range Input Impedance **Excitation Voltage** Linearity Software Filter Step Response Temp Coefficient Zero Temp Coefficient Span ± 7ppm/°C

Environment

Operating Temperature - 10 to 55°C (15 to 131°F) Storage Temperature Humidity Voltage Power

700,000 counts 50 msec 0.05µV per count 0.4µV per count (min. tilt. setting) 3.5mV/V 100% full scale 10 m-ohms min 10Vdc @ 250mA ± 0.0015% full scale multi-variable up to 10,000 msec one conversion ± 2ppm/°C

1,048,576 total counts

Display Туре

Active Digits

high intensity cobalt green vacuum fluorescent 7 digit alpha numeric 0.59" high for weight 8 digit alpha numeric 0.39" high for status

Remote Hold Input (Optically Isolated)

(Contact closure or dc logic compatible) Closed hold Open normal operation

Communications (Standard)

Serial RS-422/485	full or half duplex ASCII, printer, Provox, Modbus, or BLH
	network protocols; odd, even or no parity-selectable
Baud Rates	300, 1200, 2400, 4800, 9600 or 19200

Analog Output (Optional)

Conversion	16 bit D-A
Current Output	0-24mA - 500 ohm max.

Enclosure

Dimensions (std)

8.5 x 12.3 x 10.6 in. HxWxD

- 20 to 85°C (- 5 to 185°F)

15 watts max

5 to 90% rh non-condensing 115/240Vac + 15% @ 50/60Hz



DIMENSIONS



BLH is continually seeking to improve product quality and performance. Specifications may change accordingly.

LCc- II Load Cell Calibrator

(Replaces the Model LCc)

BASE UNIT INCLUDES: Case with Carrying Handle 10 Channels - Software Selectable RS-485/422 Serial Port Default Standard Calibration Mating half Bendix Connector



MODEL DESCRIPTION

LCc-II-A BASE UNIT

LCc-II-B BASE UNIT + ANALOG OUTPUT (0 - 20 Ma)

OPTIONAL: Additional Mating Half Bendix Connector