

## 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

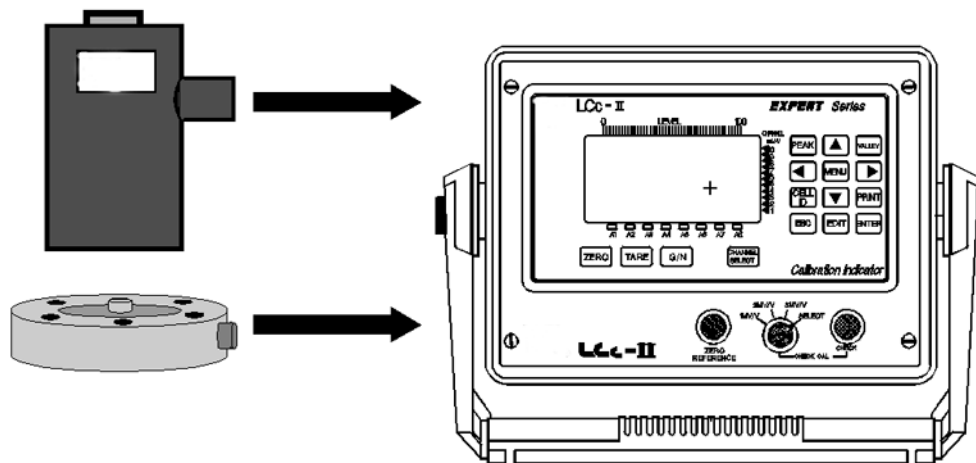
tare values. To check calibration, three standard values are switch selectable along with a fourth provision for a user supplied resistor. Rear panel tension or compression selection reverses polarity if needed. Signal communication is available in 16 bit analog output and RS-422/485 digital formats.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



**SPECIFICATIONS**

**Performance**

Resolution	1,048,576 total counts
Displayed Resolution	700,000 counts
Conversion Speed	50 msec
Displayed Sensitivity	0.05μV per count
Noise	0.4μV per count (min. tilt. setting)
Full Scale Range	3.5mV/V
Dead Load Range	100% full scale
Input Impedance	10 m-ohms min
Excitation Voltage	10Vdc @ 250mA
Linearity	± 0.0015% full scale
Software Filter	multi-variable up to 10,000 msec
Step Response	one conversion
Temp Coefficient Zero	± 2ppm/°C
Temp Coefficient Span	± 7ppm/°C

**Environment**

Operating Temperature	- 10 to 55°C (15 to 131°F)
Storage Temperature	- 20 to 85°C (- 5 to 185°F)
Humidity	5 to 90% rh non-condensing
Voltage	115/240Vac + 15% @ 50/60Hz
Power	15 watts max

**Enclosure**

Dimensions (std)	8.5 x 12.3 x 10.6 in. HxWxD
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**Display**

Type	high intensity cobalt green vacuum fluorescent
Active Digits	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

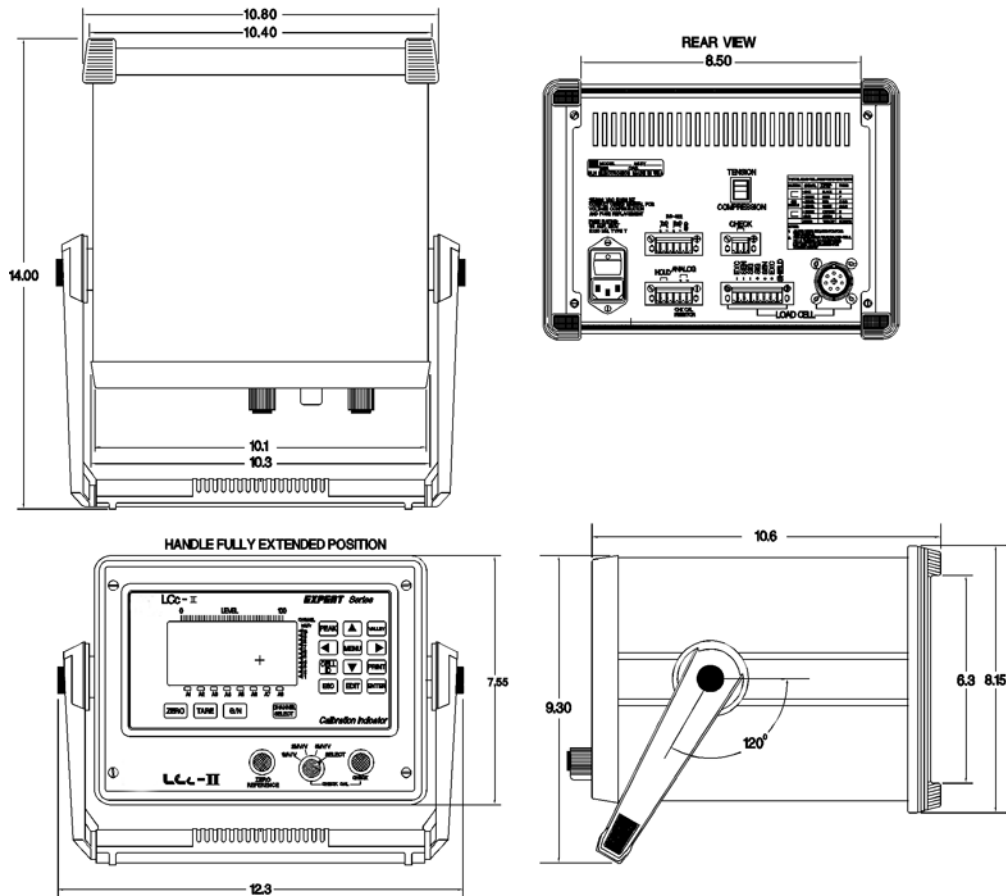
**Communications (Standard)**

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.

**DIMENSIONS**



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

## Disclaimer

All product specifications and data are subject to change without notice.

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