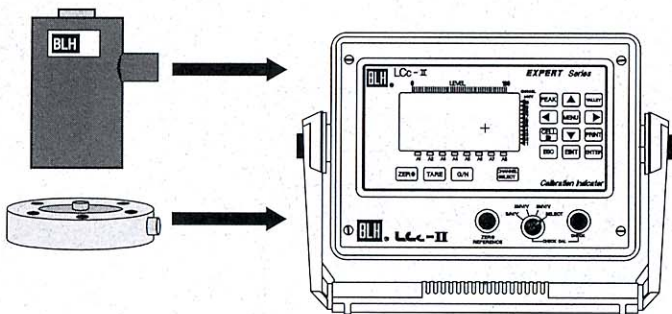


### Load Cell Calibrator Applications:

Force Calibration Systems  
Dynamometers  
Test Standards



- 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



### Product 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.

**BLH Electronics, Inc.**

*An ISO 9001 Registered Company*

# LCc-II Specifications and Outline Dimensions

## Performance

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

## Environment

Operating Temperature	-10 to 55 $^{\circ}$ C (15 to 131 $^{\circ}$ F)
Storage Temperature	-20 to 85 $^{\circ}$ C (-5 to 185 $^{\circ}$ F)
Humidity	5 to 90% rh non-condensing
Voltage	117/230 Vac + 15% @ 50/60 Hz
Power	15 watts max

## Enclosure

Dimensions (std) 8.5 x 12.3 x 10.6 in. HWD

## Display

Type high intensity cobalt green vacuum fluorescent  
Active Digits 7 digit alpha numeric .59" high for weight  
8 digit alpha numeric .39" high for status

## Remote Hold Input (Optically Isolated)

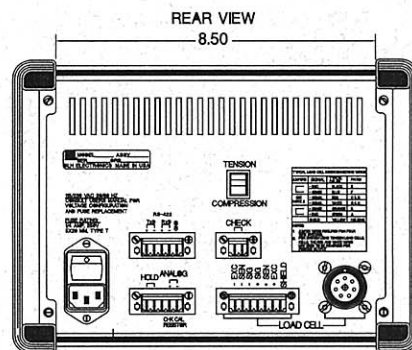
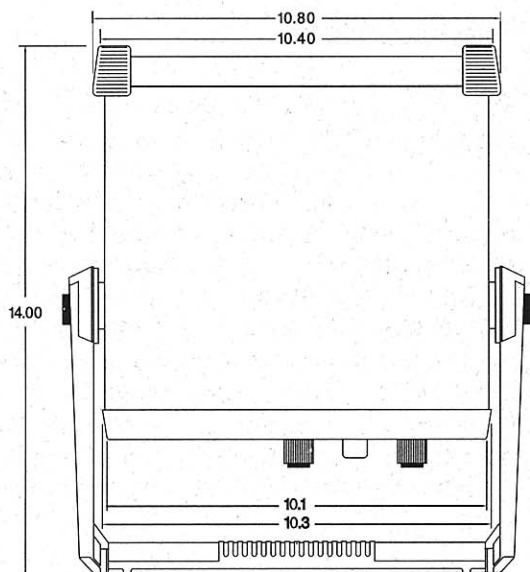
(Contact closure or dc logic compatible)  
Closed hold  
Open normal operation

## Communications (Standard)

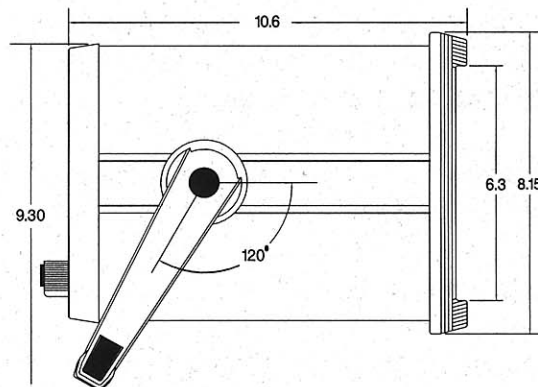
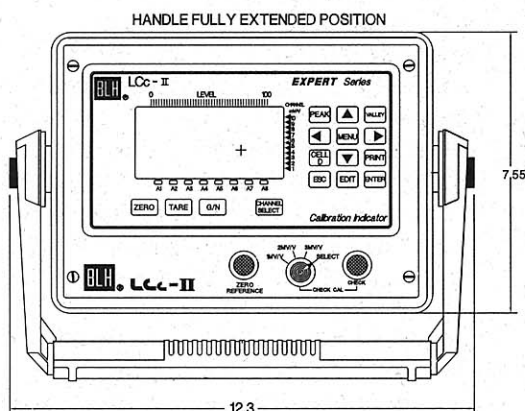
Serial RS-422/485 full or half duplex ASCII, printer, Provox, Modbus, or BLH network protocols  
Baud Rates odd, even or no parity- selectable 300,1200, 2400, 4800, 9600, or 19200

## Analog Output (Optional)

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



Dimensions shown in inches



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

### MAIN OFFICE

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Canton, MA 02021  
Tel: (781) 821-2000  
Fax: (781) 828-1451  
<http://www.blh.com>

## BLH Electronics, Inc.

ISO 9001 Registered

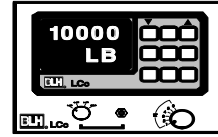
U.S.A. Facility

### CANADA

41 Horner Ave, Unit 5  
Toronto, Ontario M8Z 4X4  
Tel: (416) 251-2554  
Fax: (416) 251-2690  
Toll Free: (800) 567-6098

## 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