

## Quick Start Guide

### LC-100 Precision Loop Calibrator



#### (1) LOW BATTERY DISPLAY

#### (2) AUTO-STEP/RAMP MODE INDICATOR

Indicates output mode — automatic continuous ramp or 25% step increment/decrement.

#### (3) POWER ON/OFF KEY

Push once to turn power on, push again to turn power off.

Battery Save Function - Automatically turns power off after preset amount of time. Factory default is 30 minutes. To change or disable, hold the AUTO key down and turn power on. Wait about one (1) second and release the AUTO key. The display will indicate the current battery save feature interval (off to 30 minutes). Immediately turn the knob to change the interval or disable the function. Press the AUTO key again to store the new value and return the unit to normal operation.

#### (4) LOOP POWER KEY

In mA measure mode, press this key to simultaneously source 24 V loop power to device under test, and measure resultant loop current.

#### (5) MODE KEY

Press repeatedly to sequence through mA Source, mA Measure, mA Simulation, mA Measure with Loop Power, and Voltage Measure modes.

#### (6) % ERROR KEY

Calculates error as a percent of span. Connect to unit under test. Select mA output mode (source or simulate). Adjust LC-100 to desired output. If unit under test does not read properly, hold % ERROR key and adjust knob until unit under test reads correctly. Continue to hold down %ERROR key. Reading in % ERROR display (13) will be error or deviation calculated as a percent of span. Release %ERROR key to return display to normal operation.

#### (7) VALUE ADJUST KNOB

Rapidly adjusts value of digit selected with Digit Selection Cursor Control keys.

#### (8) DIGIT SELECTION CURSOR CONTROL KEYS

Press to move digit selection cursor (see #12) under digit whose value is to be adjusted with the knob.

#### (9) MODE INDICATOR

#### (10) MEASURE MODE INDICATOR

Indicates mA or Voltage measure mode.

#### (11) MAIN DISPLAY

#### (12) DIGIT SELECTION CURSOR

Indicates which digit will be adjusted by turning knob. Cursor will indicate only one digit at a time.

#### (13) % ERROR DISPLAY

Indicates % of full span, or error/deviation calculated as a percent of span when % ERROR function is used

#### (14) AUTO KEY

In source or simulate mode, pressing AUTO key toggles between 1) step output mode (output increases in 25% increments), 2) slow ramp output mode, or 3) fast ramp mode. Once enabled, step/ramp modes will run continuously until another key is pressed.

#### (15) 25% KEY

Pressing 25% key increases output in 25% (4 mA) increments.

#### (14)/(15) MAX/MIN KEYS

In any Measure mode (mA, mA w/loop power, or voltage), continuously monitor and store minimum and maximum values for selected input. Select the Measure mode, connect to unit under test. Press both MIN and MAX simultaneously to clear memory (“CLR” will display). Allow unit to log minimum and maximum values as required. Press MIN or MAX at any time to display stored value. Turning unit off or changing modes clears memory. Disable Battery Save feature before using (see Operating Instructions).



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