

LC-100

Precision Loop Calibrator

Description

The LC-100 Precision Loop Calibrator provides significantly extended performance when compared to any competitive calibrator. With an accuracy of 0.015% of reading, with 0.001 mA resolution, the LC-100 has the highest accuracy in its class. Features such as a “% Error” function, which eliminates manual error calculation and allows the display of the actual versus ideal error at any calibration point, put the LC-100 way beyond similar instruments. The LC-100 can simulate, power, and measure two-wire transmitters. With automatic Step and Ramp functions, the LC-100 enables remote calibration of 4-20 mA devices.

Intuitive Interface

The LC-100 Loop Calibrator provides a highly intuitive user interface. A pair of cursor keys allows rapid selection of the decade to be modified, while a large knob allows precise and rapid adjustment to any value needed, with immediate feedback from the LCD display. A single MODE key cycles through and selects the source, simulate, and measure modes.

Powerful Features

The LC-100 provides innovative, powerful features to make your calibration job easier. A handful of clearly marked keys provide access to the full functionality of the unit. To enable remote calibration of devices and processes, the LC-100 features automatic STEP and RAMP output modes, which automate either a discrete 4-8-12-16-20-16-12-8-4 mA stair step output, or two speeds of a linear 4-20-4 mA ramp output, respectively. One or more simple pushes of the AUTO key (1) are all that are needed to access this time-saving function. To further aid remote calibration, the LC-100 features a Minimum/Maximum value recall function. In the measure mode, holding the AUTO/(MAX) key (1) provides a direct readout of the maximum value achieved, while holding the 25%/(MIN) key (4) provides a direct readout of the minimum value achieved. Holding the % ERROR key (2) while turning the large knob provides instant feedback of the difference between the ideal and actual current values required for a given device response. Instant verification of whether the device is within its accuracy range is provided. No more calculations are necessary!



Features

- Very high accuracy – $\pm 0.015\%$ of reading
- Very high resolution – 0.001 mA
- % Error function – eliminates manual error calculation
- Extended adjustment range—digital knob and user-selectable decade output allow both large and incremental (0.001 mA step) output changes
- Reads 0 to 28.000 VDC
- Built-in 250 Ohm resistor facilitates calibration of Hart™ devices
- Remote calibration through Automatic Step and Ramp functions
- Loop power measurement capability
- Simulates, powers, and measures two-wire transmitters
- Five preset outputs (4, 8, 12, 16, 20 mA)
- Fuseless input protection up to 250 VAC
- Supplied in full rubber boot

