DLC 8800 Precision Loop Calibrator



FEATURES

- Very high accuracy ±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 HartTM devices
- Remote calibration through Automatic
 Step and Ramp functions
- Loop power measurement capability
- Simulates, powers, and measures twowire transmitters
- Five preset outputs (4, 8, 12, 16, 20 mA)
- Fuseless input protection up to 250 VAC
- Full rubber boot

The Pyragon DLC8800 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 DLC8800 has the highest accuracy in its class. Unique 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 DLC8800 way beyond similar instruments. The DLC8800 can simulate, power, and measure two-wire transmitters.

With automatic Step and Ramp functions, the DLC8800 enables remote calibration of 4-20 mA devices.

Intuitive Interface

The DLC8800 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.

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Powerful Features

The DLC8800 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 DLC8800 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 DLC8800 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 achie0ved, 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!

A LOOP POWER key (3) provides instant 24 VDC loop power output.

The 25% (4) key provides instant outputs of 4, 8, 12, 16 and 20 mA loop current, which increments each time the key is pushed.

Powerful features and an intuitive interface come together to provide a Loop Calibrator like no other in its class — The Pyragon DLC8800.

DLC8800 SPECIFICATIONS

Specifications (25°C unless otherwise noted)

Input

Current Range 0.000 to 24.000 mA

-25.00 to +125.00 %

Voltage (Reading) 0 to 28 VDC

Input Protection fuseless, up to 250 VAC

Output

Source/Simulate Range 0.000 to 24.000 mA

-25.00 to +125.00 %

Drive Capability 1200 Ohm without Hart

950 Ohm with Hart

Loop Supply Voltage 24 VDC

Range Select Decade

Incremental to 0.001 mA steps

Resolution 1 μA

Accuracy $\pm 0.015\%$ of reading $\pm 2 \mu A$

Temperature Range

Operating -10 to +55 °CStorage -20 to +70 °C

Power Requirements

Battery 9 V, one required; included

AC Adapter optional

Mechanical

Dimensions 5.7" x 3.15" x 1.43"

(14.47 cm x 8.00 cm x 3.63 cm)

Weight 12 ounces (340 gms)

Companion all-in-one instrument for multi-function calibration requirements.

Need a single instrument for current, voltage, frequency, temperature, RTD and pressure calibration? Pyragon offers its Model UPC8888 Multi-Function Calibrator for virtually any high performance calibration requirement.



Accessories Included:

Test leads, 9V battery, NIST Certificate, and instruction manual

Optional Accessories

Rechargeable battery, carrying case



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