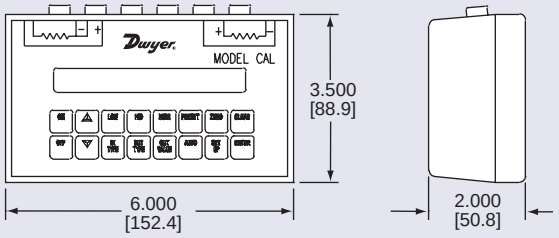
Model CAL30 Process Calibrator

Measures and Generates DC Voltage, mV and Current, Programmable



Calibrate electronic process instruments such as controllers, transmitters, or recorders with model CAL30 Process Calibrator. Model CAL30 is designed to independently measure and simulate DC volts, mV, and current. These calibrators simulate a two-wire field transmitter and generate a controlled output current when connected to an external power supply. Units source a four-wire transmitter by generating a controlled 4-20 mA DC from an external 25 V power supply.

Programmable functions, such as square root extraction for flow signals, ramp/step increment value, selectable engineering units, isolated signal conversion or automatic changing of the output value simplify many calibration tasks. Calibration values can be stored and recalled using the Low, Mid, or High keys. Program the automatic shut-off to conserve battery life.

The Model CAL30 Calibrator features 500 VDC input/output isolation and reverse polarity protection. The unit includes three 9V batteries, two sets of dual test leads, a dual binding post adapter, carrying case, and instruction manual.

STOCKED MODEL

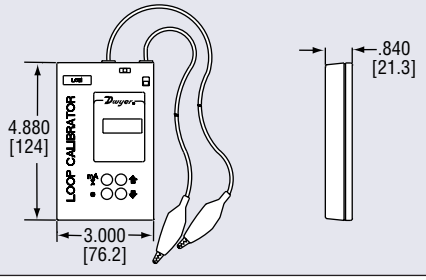
Model CAL30 Process Calibrator . . . . . .

SPECIFICATIONS

Input Ranges: Voltage: -10 to 24 mV DC; -10 to 120 mV DC (autoranging); 0 to 12 VDC; Current: 0 to 24 mA DC.
Input Impedance: 1 MΩ minimum plus 10 nanoAmps maximum for V and mV inputs; 40Ω for mA DC.
Accuracy: ±0.025% of range.
Output Ranges: 0 to 120.0 mV DC (2KΩ min. load); 0 to 12.0 VDC (2KΩ min. load); 0 to 24.0 mA DC (25 volts excitation).
Input/Output Isolation: 500 VDC.
Display: 24-character LCD, 3/16"(5 mm) character height.
Indication: Up to 5 digits depending on range.
Warm-up Time: 60 seconds, maximum.
Ambient Operating Temperature: -4 to 113°F (-20 to 45°C).
Electrical Connections: Standard banana jacks on 3/4"(19 mm) centers.
Power Requirements: Three 9V alkaline (included).
Battery Life: 100 hours, approx.
Weight: 1.15 lb (0.52 kg).
Agency Approvals: CE.

Model LC21 Smart Loop Calibrator

Sources and Reads Milliamps, Auto-Stepping, Auto-Ramping



Perform field calibration of 2-wire transmitters, receivers, recorders, and controllers with Model LC21 Smart Loop Calibrator. The portable LC21 calibrator sources 24 VDC, reads 0 to 21.00 milliamps and simulates 2-wire transmitters. Unit features continuous output or fixed step current output. Use fixed calibration currents to test and calibrate equipment or to control valve stroking. Output currents can be changed manually or automatically. The LC21 calibrator can source or simulate continuous up/down cycling between 4 and 20 mA or 0 and 20 mA—ideal for endurance testing. Display readings in mA or in % of 4-20mA or 0-20mA. Unit includes carrying case, batteries, spare fuse, and manual.

STOCKED MODEL

Model LC21 Smart Loop Calibrator . . . . . .

Accessories

No. LC21-110, 110 VAC Adapter . . . . . .
No. LC21-230, 230 VAC Adapter . . . . . .

SPECIFICATIONS

Input Range: 0 to 21.00 mA.
Accuracy: ±0.05% of range.
Output Range: 0 to 21.00 mA.
Fixed Steps: Output in mA
4-20mA lin:4-8-12-16-20,
0-20mA lin: 0-5-10-15-20,
4-20mA sq. rt (flow):4-5-8-13-20,
0-20mA sq. rt (flow):0-1.25-5-11.25-20,
4-20mA valve: 3.8-4-4.2-12-19-20-21.
Fixed Step Interval: 10 seconds in auto-stepping mode.
Auto-Ramping Interval: 60 seconds between limits.
Resolution: 10 microamps.
Temperature Effect: 0.0015% per °F, 0.003% per °C.
Ambient Operating Temperature: 14 to 122°F (-10 to 50°C), Storage: -65 to 260°F (-54 to 126°C).
Electrical Connections: 13″ (33 cm) length.
Power Requirements: Four AA 1.5V alkaline batteries.
Battery Life: Sources 12 mA: 13 hours; Measures: 64 hours.
Internal Loop Power: 24 VDC stabilized.
External Loop Power: 56 VDC maximum.
Drive Capability: 900Ω.
Housing Material: High impact ABS
Weight: 9 oz (285 g).
Agency Approvals: CE.