



Milliamp Loop Calibrators

CL309A
£435



- ✓ All 4 to 20 mA Loop Functions
- ✓ Accuracy to Better Than 0.025%
- ✓ Large High Contrast Graphic Display
- ✓ Battery Life Up to 70 Hours
- ✓ Rechargeable Battery Optional
- ✓ 3 Position Slide Switch
- ✓ Unit Displays Either Milliamp or Percent
- ✓ Compact, Lightweight and Rugged
- ✓ Overload Protected

Model CL309A is a state of the art, highly reliable, rugged and easy to use milliamp calibrator. It has the functions necessary to perform all the required maintenance and calibration tasks of virtually any 4 to 20mA loop. It provides source and read milliamp functions along with power, measure, and 2-wire transmitter simulations. In addition, it can measure DC Voltage for troubleshooting power supplies.

CL309A, £435, shown larger than actual size.



General Specifications

(Unless otherwise indicated, all specifications are rated from a nominal 23 °C, 70 % RH for 1 year from calibration)

Operating Temperature Range:
-20 to 60 °C (-5 to 140 °F)

Storage Temperature Range:
-30 to 60 °C (-22 to 140 °F)

Relative Humidity Range:
10% RH 90% (0 to 35 °C), non-condensing
10% RH 70% (35 to 60 °C), non-condensing

Size: 14.30 x 7.62 x 4.06 cm
(5.63 x 3.00 x 1.60")

Weight: 12.1 ounces

Batteries: 4 "AA" alkaline (included) 1.5 V (Duracell MN1500 or equivalent); optional AC adaptor available; NiMh rechargeable battery kit available

Miscellaneous:

Low battery indication with nominal 1 hour of operation left

Over-voltage protection to 135 vrms (rated for 30 seconds) or 240 vrms (rated for 15 seconds)

High contrast graphic liquid crystal display with 10.5 mm (0.413") high digits

Specifications

Source/power and measure 2-wire transmitters/simulate 2-wire transmitters

Ranges and Resolution: 0.00 to 24.00 mA full span OR -25.0 to 125.0% of 4 to 20 mA

Accuracy: EZ check(s) at 4 and 20mA(*) $\pm 0.025\%$ at 4.00mA and 20.00mA ($\pm 0.005\text{mA}$) 0.0 to 24.00 mA $\pm 0.05\%$ of 24.00mA ($\pm 0.01\text{mA}$)

Noise: ± 0.005 mA of reading

Temperature Effect: $\pm 0.005\%/^{\circ}\text{C}$ of FS
(*) These are internal calibrated cardinal reference points and source/power and measure 2-wire transmitter

Specifications

Loop Compliance Voltage:

24 Vdc @ 20.00 mA

Loop Drive Capability:

1200 at 20 mA for 15 hours nominal

Battery Life: Source and power measurement mode ± 30 hrs at 12 mA nominal

Read mA Specifications:

Ranges: 0.00 to 52.00 mA full span
OR -25.0 to 300.0% of 4 to 20 mA

Accuracy:

Below 24.01 mV: ± 0.05 % of 24.00 mA (± 0.01 mA)

Above 24.00 mV: ± 0.05 % of 52.00 mA (± 0.02 mA)

Voltage Burden: 2 V at 50 mA

Overload/Current Limit Protection:

24 mA nominal

Battery Life: Typical 125 hours nominal

2-Wire Transmitter Simulation Specifications

Voltage Burden: 2V at 20 mA

Overload/Current Limit Protection:

24 mA nominal

Loop Voltage Limits: 2 to 100 VDC (fuse-less protected from reverse polarity connections)

Battery Life: 125 hours nominal

Voltage Read Specifications

Range and Resolution:

-99.99 to 99.99 Vdc full span (FS)

Accuracy: ± 0.05 % of FS

Temperature Effect: ± 100 ppm/ $^{\circ}$ C of FS

Input Resistance: >2 M

Battery Life: >125 hours nominal



CL309A, £435, shown actual size.



ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
CL309A	£435	Milliamp loop calibrator

Comes with test leads, operator's manual and 9V alkaline battery.

Ordering Example: CL309A, milliamp loop calibrator, £435.

Accessories

Model No.	Price	Description
CAL-3-HH	£50	Traceable calibration certificate with test results
PSU-UNIVERSAL	19	International power adaptor 100-240 Vac 50/60Hz
SC-530	43.50	Soft carrying case
CL307A-RBK	47	Rechargeable battery



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• Heaters

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