

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



General Specifications

troubleshooting power supplies.

(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

ransmitters

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(*) ±0.025% at 4.00mA and 20.00mA (±0.005mA) 0.0 to 24.00 mA ±0.05% of 24.00mA (±0.01mA)

Noise: ± 0.005 mA of reading

Temperature Effect: ± 0.005%/°C of FS (*) These are internal calibrated cardinal reference points and source/power and measure 2-wire transmitter

NEW

Specifications

Loop Compliance Voltage: 24 Vdc @ 20.00 mA

Loop Drive Capability:

1200 at 20 mÅ for 15 hours nominal

Battery Life: Source and power measure 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 (± 0.02mA) 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:

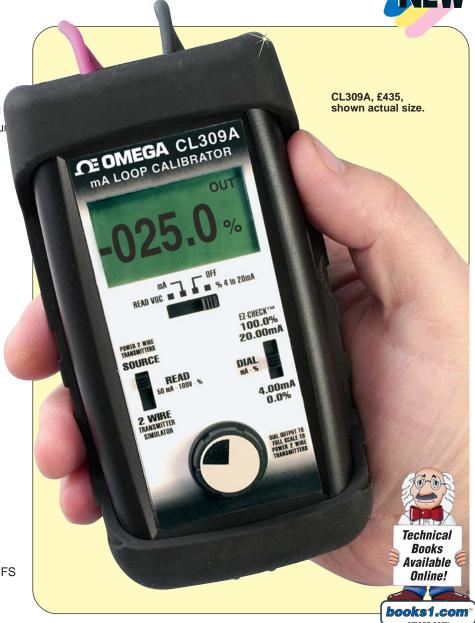
-99.99 to 99.99 Vdc full span (FS)

Accuracy: ± 0.05 % of FS

Temperature Effect: ± 100 ppm/°C of FS

Input Resistance: >2 M

Battery Life: >125 hours nominal



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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pH and Conductivity

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Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters