



AMETEK® mAcal Milliamp Loop Calibrator

- ❑ Generates and Measures the Current in the Loop on 2-wire Transmitters
- ❑ internal Generation of Stabilized 24Vdc for the Loop
- ❑ Resolution of 0.001mA in Measurement Mode
- ❑ Change Display to Read % of Full Scale
- ❑ Special Fixed Steps stored for Linear and Flow Transmitters
- ❑ Choose between Manual and Automatic Steps with 10- of 30-seconds between Steps
- ❑ Available with NIST Certification

PRODUCT DESCRIPTION

The mAcal Milliamp Loop Calibrator is an economical, easy to use calibration device for generating and measuring mA signals. The instrument is especially designed for 2-wire transmitter loops with 4-20mA signals and it is available with NIST certification.

FUNCTIONAL SPECIFICATIONS

Current Generation

Range: 0-24mA
 Resolution: 0.01mA
 Accuracy (k=2): ±0.05% of Full Scale
 Maximum Load: 900 ohm
 Temperature Coefficient: ... 0.005% per °C (-10°C to +40°C)
 0.003% per °F (-14°F to 104°F)

Current Measurement

Range: 0-24mA
 Resolution: 0.001mA
 Accuracy (k=2): ±0.05% of Full Scale
 Input Impedance: 10 ohm
 Temperature Coefficient: ... 0.003% per °C (-10°C to +40°C)
 0.002% per °F (-14°F to 104°F)

Voltage Measurement

Range: -45V to +45V
 Resolution: 0.1V
 Accuracy: 0.5V
 Input Impedance: 10M ohm

Standards Compliance

89/336/EEC
 EN50081-1
 EN50081-2
 EN50082-1
 EN50082-2
 (91/157/EEC)

PHYSICAL SPECIFICATIONS

Operating Temperature

-14°F to 104°F (-10°C to +40°C)

Storage Temperature

-4°F to 122°F (-20°C to 50°C)

Battery Life

200 hours with external loop power
 20 hours with 12mA output/internal loop power

Battery Types

4 Type LR6, AA, 1.5V Alkaline

120Vac Mains Adapters

103964, 6Vdc/240ma US/Japan- 1.3mm DC female connector

Weight

Calibrator with Batteries, Leads and Case 0.8 lbs (355g)

Dimensions (H x W x D)

6.85 x 2.6 x 1.0-inches (174 x 66 x 26mm)

Warranty

1-year Factory Warranty