

## INTRODUCTION

The Metravi CAL-404-4 mV mA RTD Calibrator is a multifunctional device used in industrial automation and process control to simulate and measure signals for testing, calibrating, and troubleshooting equipment such as transmitters, controllers, and sensors.

It generates precise millivolt signals to simulate inputs for devices like temperature transmitters and measures millivolt outputs to verify device accuracy. It is useful for calibrating devices with thermocouple inputs.

It simulates current signals to test and calibrate devices such as controllers and actuators and measures current signals to diagnose issues in current loops.

It also simulates resistance to mimic an RTD sensor for testing RTD transmitters and control systems and supports RTD/PT100 type thermocouples, with different temperature ranges.



## FEATURES

- High accuracy
- Bench-top and Portable
- Easy to use and operate
- With Rechargeable Battery
- 20000 Counts, 4 1/2 Digits
- Range Selector with LED indicator

## APPLICATIONS

- **Calibration:** Ensures sensors, transmitters, and controllers are accurate by providing reference signals.
- **Troubleshooting:** Identifies issues in control loops, such as wiring faults or device failures.
- **Maintenance:** Periodically checks the performance of instrumentation in industrial settings.
- **Simulation:** Mimics inputs during system commissioning or testing without requiring actual field sensors.

\*Technical Specifications & Appearance are subject to change without prior notice

### TECHNICAL SPECIFICATIONS

#### SOURCE MODE

DC Voltage : 0 – 199.99mV / 1.9999V / 19.999V; Accuracy: 0.05% ± 5dgt  
DC Current : 0 – 199.99μA / 1.9999mA/19.999mA; Accuracy: 0.05% ± 5dgt  
RTD PT-100 : -50, -30, 0, 30, 50, 100, 150, 200, 300, 400, 600 °C;  
Accuracy: 0.5% of scale

#### MEASUREMENTS

DC Voltage : 0-199.99mV / 1.9999V / 19.999V; Accuracy: 0.05% ± 5dgt  
DC Current : 0 – 199.99μA / 1.9999mA/19.999mA; Accuracy: 0.05% ± 5dgt

### GENERAL SPECIFICATIONS

Display : 4 ½ Digits 19999 Counts Green LED  
Output Adjustable : By 10 Turns POT for “COARSE” and “FINE”  
Power : Rechargeable Li-ion Battery  
Charger : 8.4V/2A Power Adaptor (LED glows Red while charging,glows Green when fully charged)  
Charging Time : Min. 3 hours before first use  
Dimensions : 150 x 60 x 215 mm  
Weight : 1200 gms approx.  
Operating Temperature : 0 to 50°C  
Storage Temperature : -10 to 70°C  
Humidity Conditions : ≤ 95% RH (non-condensing)  
Accessories : Soft Carrying Case, Charger, Test Leads, User Manual, Calibration Certificate



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