

The Evolutionary Automated Calibrator

Automated mA Calibrator with Loop Diagnostics Piecal 434

PIECAL 434



Do More with the PIECAL 434!

- Calibrate Milliamp Instruments**
 Source 0.000 to 24.000 mA & -25.00 to 125.00% of 4-20 mA
 Read 0.000 to 52.000 mA, -99.99 to 99.99 V
 Simulate 2-Wire Transmitters
 Power & Read 2-Wire Transmitters
 Menu Selectable 250 Ω resistor for HART compatibility
- Calibrate with confidence**
 Accurate to $\pm 0.025\%$ of Span at 4.000 & 20.000
 EZ-CHECK outputs
- Easy-to-Read Display**
 Turn on the backlight to read in dark areas of the plant
- Locate Loop Current Leakages**
 Automatic indication of Loop Current and Leakage Current. Measure ground current leakage from faulty wiring, flooded conduit and corrosion bridges. Leakage appears as a *Zero Shift* and helps you decide if the transmitter needs calibration or if there is some problem in the loop wiring.
- Faster Calibrations**
 Instantly select three outputs with EZ-CHECK switch
 Easily find trip points with two speed EZ-DIAL plus Automatic Stepping & Ramping
- Includes Rubber Boot and Attached Test Leads**
- Optional Accessories**
 AC Adaptor for 120 VAC (020-0101)
 AC Adaptor for 240 VAC (020-0100)
 NiMh Batteries & Charger 120VAC/12V DC (020-0103)

Competitor's 434



- Smaller Display
- Difficult to Access 250 Ω Hart Compatible Resistor
Requires disassembly to move internal jumper
- Hard-to-Read Display (No Backlight)
- No Detection of Loop Current Leakages
- No Automatic Stepping & Ramping
- No Rubber Boot

Troubleshoot Loop Problems with Patented Loop Diagnostic Technology

Recently calibrated two-wire transmitter controlling at 12.000 mA.

Control room reports "Loop Out of Tolerance."

Problem Indicated

PIECAL 434 powers the loop with Current Leakage Detector. Current (0.28 mA) is leaking around the control element due to incorrect grounding, corrosion or moisture.

FULL SCALE OUT
12.280 mA
LEAKAGE: 00.28 mA

Problem Found & Corrected!

Moisture was found in unsealed junction box. Loop is operating correctly without costly instrument replacement or recalibration.

FULL SCALE OUT
12.000 mA
LEAKAGE: 00.00 mA

Hours of troubleshooting saved!