PCAL400 - Process Calibrator

Precision Calibrator for Sourcing & Measuring DC V/mA

The PCAL400 is designed for measuring, sourcing, and simulating DC voltage and current signals in industrial control and instrumentation systems. Ideal for calibration, troubleshooting, and loop testing, it delivers accurate signal verification with DC voltage/current input and output functions, active and passive current sourcing, and manual step or waveform simulation capabilities. An integrated 24V loop power supply supports transmitter testing, while simultaneous signal measurement and output with dual display improves efficiency during setup, diagnostics, and maintenance. Additional features such as mA percentage display mode provide added flexibility for process calibration tasks..



Key Features:

- **Simultaneously measure and source with large dual backlit display**
- **High accuracy of ±0.05% DCV and ±0.02% DCmA for measuring and ±0.05% for sourcing**
- **Switchable 0 to 20mA and 4 to 20mA ranges with % readout for rapid loop verification**
- **Auto sawtooth and triangular current outputs for efficient loop testing**
- **0 to 10VDC output with high resolution for precise calibration**
- **Built-in flashlight, auto power off, and low-battery indicator for field use**
- **Optional Traceable Calibration model includes a Certificate of Traceability to N.I.S.T. for quality assurance and compliance documentation**

Applications:

- Calibration Labs
- Process Control
- Electronic Circuit Testing
- Instrumentation Development
- Laboratories and Research & Development

Users:

- Calibration and metrology technicians
- Process control engineers
- Electrical and electronics engineers
- QA/QC, test engineers, field service technicians
- R&D engineers and lab technicians

Specifications

Specifications	Range	Resolution	Accuracy
Measure: DC Voltage	100mV, 1V, 35V	0.001mV, 0.1mV, 1mV	±(0.05%+0.03mV)
Measure: DC Current	30mA	0.001mA	±(0.02%+4μA)
Source: DC Voltage	10V	0.001V	±(0.05%+2mV)
Source: DC Current	20mA	0.001mA	±(0.05%+4μA)
Power	3 × AA batteries (included)		
Dimensions/Weight	7 × 3.5 × 2" (178 × 89 × 51mm)/2.2lbs (1kg)		

Ordering Information

PCAL400 ..... Process Calibrator
PCAL400-NIST ..... Process Calibrator with Certificate Traceable to NIST

For more information about PCAL400, please scan or click:



What's In the Box

- PCAL400 Calibrator
- Industrial Test Leads with Clips
- Spare Fuses
- Latch Key
- 3 × AA Batteries
- Quick Start Guide

CE RoHS COMPLIANT 2 LIMITED PRODUCT WARRANTY YEARS

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