



Temperature & Process Instruments, Inc.

High Accuracy Portable and Laboratory Multifunction Calibrators



Temperature & Process Instruments, Inc.
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- ▶ Portable and Fixed Mounted Industrial Infrared Thermometers
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- ▶ Head Mounted Temperature Transmitters
- ▶ MIST Series Microprocessor based Integrated Sensor Transmitter

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MC1200 HART® Capable Dual Display Multifunction Calibrator

Most Popular

The MC1200 handheld multifunction temperature and process calibrator provides a feature set unmatched in high accuracy, handheld calibrators in its price range. The MC1200 Calibrator provides the functions and accuracy associated with fixed-installation, laboratory instrument, and has everything needed for virtually any calibration task.

Built-in 250 Ohm resistor for HART® compatibility, with smart transmitters and PLCs, full fuseless protection, are just some of the additional features that make the MC1200 the single most indispensable tool available for virtually any calibration task.



Price Start at **\$1995.00**

Features

- ▶ Measure and source Thermocouples (13 types), RTDs (13 types), Ohms, current, voltage, frequency; source pulse trains
- ▶ Isolated mA/V read-back circuit for complete transmitter calibration
- ▶ Communication port compatible with both Fluke 700 Series and Beta Calibrator pressure modules
- ▶ Built-in 24V supply can drive 4-20 mA loops up to 1000 Ohms
- ▶ Direct entry of custom RTD coefficients (R_0 , A, B, C)
- ▶ All source modes can be programmed with dedicated setpoints to speed calibration and linearity tests
- ▶ Highest accuracy in class to 0.015% of reading
- ▶ Meets CE requirements and is designed to IEC 1010 safety standards

Model	Description	Price
MC1200	Multifunction Calibrator	\$1995.00

Each instrument includes Instruction Manual, Test Leads, Protective Rubber Boot and NIST Certificate.

For Additional Models and Specifications
Visit our Web site at:
<http://www.tnp-instruments.com>

MC1000 High Accuracy Temperature and Process Multifunction Calibrator

The MC1000 handheld Multifunction Calibrator provides the combination of a high accuracy calibrator and common DMM functions. This single instrument will calibrate virtually any process device read and source thermocouples, RTDs, Ohms, Voltage, current, frequency, pressure and test continuity as well. The MC1000 features a simple user interface, large display, and an RS232 interface.



Price Start at **\$1360.00**

Features

- ▶ $\pm 0.4^\circ\text{C}$ thermocouple
- ▶ $\pm 0.3^\circ\text{C}$ RTD accuracy
- ▶ $\pm 0.015\%$ of reading electrical accuracy
- ▶ Ten (10) T/C types and eight (8) RTD types, plus YSI 400 Thermistors
- ▶ Read and source modes
- ▶ Full function 4 to 20 mA read, source, simulate, and read/power modes with $\pm 0.015\%$ of reading accuracy
- ▶ Source or read 0 to 20 Volts ($\pm 0.015\%$ of reading accuracy)
- ▶ Measure 0 to 250 VDC or VAC
- ▶ Direct keyboard entry enables quick output changes
- ▶ Store up to nine (9) setpoints for each output function
- ▶ RTD function compatible with all pulsed transmitters
- ▶ RS-232 interface

Available for Quick Delivery

Model	Description	Price
MC1000	Multifunction Calibrator	\$1360.00

Each instrument includes Instruction Manual, Test Leads, Protective Rubber Boot and NIST Certificate.

For Additional Models and Specifications
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3001 Precision Lab Standard Two Channel, Multifunction Calibrator



The 3001 Precision Lab Calibrator combines the power and features of a lab calibrator, with the addition of an isolated measurement channel. This isolated measurement channel consists of two (2) voltage ranges: 10V and 100V DC, Milliamp range 0 to 52mA, Milliamp range with simultaneous 24VDC power, selectable 250 Ohm HART resistor and accuracy of 0.005% of reading on voltage ranges.

The 3001 Millennium calibrator provides simple, front-panel entry of mode, range, and value, using either direct key-board entry or cursor entry. Using cursor entry, the LEFT/RIGHT arrow keys are used to move the cursor under the digit in the display to be changed. The UP/DOWN arrow keys increment/decrement the value at the cursor position.

Features

- ▶ 0.0025% Calibration Accuracy
- ▶ Source/Read thermocouple, RTD, Voltage, Current and Pressure
- ▶ Custom RTD and SPRT profiles
- ▶ RS-232, USB and IEEE-488 remote control
- ▶ Compatible with Fluke Met/Cal® Software
- ▶ Isolated Measurement Channel
- ▶ Includes NIST Certificate with calibration data
- ▶ Isolated measurement channel
- ▶ Two (2) voltage ranges: 10V and 100 V DC
- ▶ Milliamp range 0 to 52mA
- ▶ Milliamp range with simultaneous 24 VDC power
- ▶ Selectable 250 Ohm HART® resistor

Model	Description	Price
3001	Precision Lab Calibrator	\$4995.00

Each instrument includes Communication Interface, NIST Certificate of Calibration, Instruction Manual and line cord.

DMC 1400 Multifunction Temperature and Process Documenting Calibrator

The DMC-1400 Documenting Multifunction Calibrator provides a feature set unmatched in high accuracy, hand-held calibrators in its price range. The DMC-1400 provides the functions and accuracy associated with fixed installation, laboratory instruments, and has everything needed for virtually any calibration task. What makes this versatile calibrator best in class is the ability to fully document any calibration easily while performing the normal job. No special software is required! You already have all the software you need installed on your PC. Some functions will require a Microsoft® Excel®-compatible spreadsheet.



Price Start at **\$2650.00**

Features

- ▶ Measure and simulate Thermocouples (13 types), RTDs (13 types), Ohms, current, voltage, frequency and pressure; source pulse trains
- ▶ Highest accuracy in class to 0.015% of reading
- ▶ Pressure module communication port compatible with BETA pressure modules
- ▶ Isolated mA/V read-back circuit for complete transmitter calibration
- ▶ Built-in 250 Ohm resistor for HART compatibility with smart transmitters and PLCs
- ▶ Built-in 24 V supply can drive 4 to 20mA loops up to 1000 Ohms
- ▶ Test for pass/fail criteria
- ▶ Capture both AS FOUND and AS LEFT data
- ▶ Review data and print calibration certificates in the field

Model	Description	Price
DMC-1400	Multifunction Documenting Calibrator	\$2695.00

The DMC-1400 is supplied with a rugged protective boot, four standard alkaline AA batteries, padded carrying case, test leads, communications cable, USB adapter, user manual, quick start guide, DVD and CD based video training and, of course, an NIST traceable calibration certificate.

For Additional Models and Specifications
Visit our Web site at:
<http://www.tnp-instruments.com>

Thermocouple and 4 to 20mA Single Function Calibrators

LC100 Precision Process Milliamp Loop Calibrator

- ▶ Very high accuracy - $\pm 0.015\%$ of reading
- ▶ Very high resolution 0.001mA 0.001V
- ▶ Simulates, powers, and measures two-wire transmitters

Includes Instruction Manual, Test Leads, Protective Rubber Boot and NIST Certificate.



Model	Description	Price
LC100	Milliamp Calibrator	\$595.00



TC100 Thermocouple/mV Calibrator

- ▶ High accuracy $\pm 0.3^\circ\text{C}$ (Type J T/C all errors combined)
- ▶ Ten (10) common T/C types plus mV (see chart below)
- ▶ Accepts both T/C mini-plug and bare T/C wires

Includes Instruction Manual, Test Leads, Protective Rubber Boot and NIST Certificate.

Model	Description	Price
TC100	Thermocouple Calibrator	\$740.00

Low Cost MS-420 Mini-source Portable 4 to 20mA Process Loop Calibrator

Model	Description	Price
MS-420	Milliamp Simulator	\$340.00

Includes test leads, 9 V battery, NIST Certificate, and instruction manual



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