

Welcome to Temperature, Process & Pressure Instruments Calibrator Product Line Overview Catalog



Multifunction Temperature & Process Calibration Instrumentation

- ▶ DMC-1410 High Accuracy Multifunction Documenting Temperature and Process Calibrator
- ▶ MC-1210 High Accuracy Multifunction Temperature and Process Calibrator with HART® Compatibility
- ▶ MC-1010 High Accuracy Multifunction Process Calibrator with Common Digital Multi-Meter (DMM) Functions
- ▶ 3001 Precision Two Channel, High Accuracy Bench Top Laboratory Temperature and Process Multifunction Calibrator



Temperature & Process Calibration Instrumentation

- ▶ MC-8010 Precision Universal Temperature Calibrator
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- ▶ LC-110 Precision Current Loop Calibrator
- ▶ TC-100 Thermocouple/mV Calibrator Precision Thermocouple Calibrator
- ▶ LC-100 Precision Process Milliamp Loop Calibrator
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Pressure Calibration Instrumentation

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- ▶ MECP Series Hand Operated Pneumatic and Hydraulic Pressure Calibration Pump

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Portable Multifunction Temperature & Process Calibrators

TEMPERATURE & PROCESS INSTRUMENTS INC

DMC1410 High Accuracy Multifunction Documenting Temperature and Process Calibrator

Features

- ▶ Measure and source 13 Thermocouple and RTD Types, Ohms, Current, Voltage, Frequency; source pulse trains
- ▶ Test for pass/fail criteria
- ▶ Capture both AS FOUND and AS LEFT data
- ▶ Review data and print calibration certificates in the field
- ▶ Upload data to PC for analysis with Microsoft® Excel® or full database
- ▶ Store up to 21 data points per instrument, and up to 50 instruments in non-volatile memory
- ▶ Highest accuracy in class to 0.015% of reading
- ▶ Built-in 250 Ohm resistor for HART compatibility with smart transmitters and PLCs

For more information visit our web site at:

www.tnp-instruments.com/dmc1410_multifunction_documenting_calibrator.html



MC1210 High Accuracy Multifunction Temperature and Process Calibrator with HART® Compatibility

Features

- ▶ Measure and source 13 Thermocouple and RTD 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 to 20mA loops up to 1000 Ohms
- ▶ Direct entry of custom RTD coefficients (Ro, A, B, C)
- ▶ Highest accuracy in class to 0.015% of reading
- ▶ Meets CE requirements and is designed to IEC 1010 safety standards
- ▶ RS-232 interface

For more information visit our web site at:

www.tnp-instruments.com/mc1210_multifunction_calibrator.html



MC1010 High Accuracy Multifunction Process Calibrator with Common Digital Multi-Meter (DMM) Functions

Features

- ▶ Measure and source 10 Thermocouple Types, 8 RTD Types, Ohms, Current, Voltage, Frequency
- ▶ 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 to 20mA loops up to 1000 Ohms
- ▶ Source or read 0 to 20 Volts ($\pm 0.015\%$ of reading accuracy)
- ▶ $\pm 0.4^\circ\text{C}$ thermocouple/ $\pm 0.3^\circ\text{C}$ RTD accuracy
- ▶ Meets CE requirements and is designed to IEC 1010 safety standards
- ▶ RS-232 interface

For more information visit our web site at:

www.tnp-instruments.com/mc1010_multifunction_calibrator.html



MC8010 Precision Universal Temperature Calibrator High Accuracy Calibration Measure and Source Thermocouples, RTDs, Ohms and Millivolts

Features

- ▶ Measure and source 10 Thermocouple Types, 8 RTD Types, Ohms, Millivolts and YSI 400 Thermistor
- ▶ Simple, straight forward, Intuitive user interface
- ▶ Works with Rosemount 3144 and all other smart transmitter
- ▶ High accuracy $\pm 0.4^{\circ}\text{C}$ J thermocouple and $\pm 0.3^{\circ}\text{C}$ PT 100-385 RTDs; all errors included
- ▶ NEMA 4 rated case, rugged design
- ▶ RTD simulation works with all pulsed (smart) transmitters
- ▶ YSI 400 series thermistor range for medical applications
- ▶ Store set-points for each output function

For more information visit our web site at:

www.tnp-instruments.com/PTC8010_thermocouple_RTD_calibrator.html



PSC-4010 High Accuracy Process Signal Calibrator Reads and Simulates Voltage, Current, and Frequency Signals

Features

- ▶ New ClearBrite Graphic Display
- ▶ Auto Stepping/Auto Ramping
- ▶ Easy to learn yet powerful 3 Key Martel Menu System
- ▶ Reads and simulates process control signals voltage, current, and Frequency
- ▶ New streamlined case design
- ▶ Built-in 24 VDC source for powering two wire transmitters

For more information visit our web site at:

www.tnp-instruments.com/PSC4010_multifunction_process_calibrator.html



3001 Precision Laboratory Standard Two Channel, High Accuracy Bench Top Laboratory Temperature and Process Multifunction Calibrator

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^Å® Software
- ▶ Isolated Measurement Channel
- ▶ Includes NIST Certificate with calibration data

For more information visit our web site at:

www.tnp-instruments.com/3001_precision_multifunction_calibrator.html



New LC-110H Precision Current Loop Calibrator with HART Communications and Diagnostic

Features

- ▶ Best in Class Accuracy at 0.01% Reading
- ▶ Small Rugged design operates on (6) standard AAA batteries
- ▶ Intuitive interface that features a Quick-Set Knob
- ▶ 24VDC loop power with mA Measure Mode (-25% to 125%)
- ▶ Resolution of 1 μ A on mA ranges and 1mV on voltages ranges
- ▶ Built in selectable 250 Ohm Resistor for HART communications
- ▶ Simple two wire connection for all measurements
- ▶ Auto Shutdown to conserve battery life (adjustable up to 30 minutes)
- ▶ Variable step & ramp time in seconds
- ▶ Adjustable span selection (0 to 20mA or 4 to 20mA)

For more information visit our web site at:

www.tnp-instruments.com/lc110_milliamp_loop_calibrators.html



New LC-110 Precision Current Loop Calibrator

Features

- ▶ Best in Class Accuracy at 0.01% Reading
- ▶ Small Rugged design operates on (6) standard AAA batteries
- ▶ Intuitive interface that features a Quick-Set Knob
- ▶ 24VDC loop power with mA Measure Mode (-25% to 125%)
- ▶ Resolution of 1 μ A on mA ranges and 1mV on voltages ranges
- ▶ Simple two wire connection for all measurements
- ▶ Auto Shutdown to conserve battery life (adjustable up to 30 minutes)
- ▶ Variable step & ramp time in seconds
- ▶ Adjustable span selection (0 to 20mA or 4 to 20mA)

For more information visit our web site at:

www.tnp-instruments.com/lc110_milliamp_loop_calibrators.html



LC-100 Precision Process Milliamp Loop Calibrator for High Accuracy Process Instrumentation Calibration

Features

- ▶ Very high accuracy $\pm 0.015\%$ of reading
- ▶ Very high resolution - 0.001mA/0.001V
- ▶ Error function eliminates manual error calculation
- ▶ Extended adjustment range digital knob and user-selectable decade output allow both large and incremental (0.001mA step) output changes
- ▶ Reads 0 to 28.000 VDC
- ▶ Built in 250 Ohm resistor facilitates calibration of HART devices
- ▶ Remote calibrations through Automatic Step and Ramp functions
- ▶ Simulates, powers, and measures two-wire transmitters
- ▶ Five preset outputs (4, 8, 12, 16, 20mA)

For more information visit our web site at:

www.tnp-instruments.com/lc100_milliamp_loop_calibrator.html



TC-100 Precision Thermocouple/mV Calibrator for High Accuracy Temperature Calibration

Features

- ▶ 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 Thermocouple mini-plug and bare Thermocouple wires
- ▶ Simple decade control of output
- ▶ Three (3) setpoints for each Thermocouple type
- ▶ MIN/MAX recall in measure mode
- ▶ Input protection to 240 VAC
- ▶ Supplied in full protective rubber boot

For more information visit our web site at:

www.tnp-instruments.com/tc100_thermocouple_calibrator.html



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

Features

- ▶ Calibrates Chart Recorders
- ▶ Calibrates Process Loop Panel Meters
- ▶ Calibrates Data Acquisition Devices
- ▶ Calibrates Other Process Instruments
- ▶ Five preset outputs (4, 8, 12, 16, 20mA)

For more information visit our web site at:

www.tnp-instruments.com/ms420_mini_source_milliamp_loop_calibrator.html



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Portable Dry Block Thermocouple and RTD Temperature Calibrator

TEMPERATURE & PROCESS INSTRUMENTS - INC

ThermCal400 Portable Dry Block Temperature Calibrator Easily Calibrate your Thermocouples, RTD's and Bi-Metal Thermometers Temperature Sensors

Features

- ▶ Laboratory grade performance at an economical price
- ▶ Wide temperature range of ambient +5°C/9°F to 400°C/752°F
- ▶ Store and recall up to 8 set-points
- ▶ Fast heat up and cool down
- ▶ Interchangeable Calibration Blocks
- ▶ Includes traceable calibration with data and calibration label
- ▶ Only 10 lbs. with insert
- ▶ Adjustable ramp rate for reliable thermal switch testing
- ▶ Advanced all digital controller with large bright display

For more information visit our web site at:

www.tnp-instruments.com/thermcal400_portable_dry_block_calibrator.html



Thermcal 130 Low Temperature Portable Dry Block Calibrator Easily Calibrate your Thermocouples, RTD's and Bi-Metal Thermometers Temperature Sensors

Features

- ▶ Fast heat up and stabilization
- ▶ Operates -4°F to 266°F (-20°C to 130°C)
- ▶ Store up to 8 setpoints
- ▶ Laboratory performance at an economical price
- ▶ Lightweight and portable for use in the field
- ▶ Removable probe inserts for flexibility & many probe sizes
- ▶ Store & recall up to 8 calibration setpoints
- ▶ CE marked for safety
- ▶ Designed & manufactured in the USA

For more information visit our web site at:

<http://www.tnp-instruments.com/ats3080-thermcal-130-block-calibrator.html>



FTBSL6 Fluidized Temperature Bath Calibrator Easily Calibrate your Thermocouples, RTD's Sensors and Bi-Metal Thermometers Temperature Sensors

Features

- ▶ Wide temperature range 50°C (122°F) to 605°C (1121°F)
- ▶ Advanced PID temperature control
- ▶ Fully automatic Fluidizing air control
- ▶ Flexible lid for immersing parts basket and temperature probes for calibration
- ▶ Compact size for placement on standard lab benches
- ▶ Compact working volume 5.3" diameter by 6" depth

For more information visit our web site at:

<http://www.tnp-instruments.com/FTBSL6-fluidized-temperature-bath.html>





Portable Dry Block Thermocouple and RTD Temperature Calibrator

TEMPERATURE & PROCESS INSTRUMENTS INC

TCS-140 Low Temperature Dry/Wet Block Calibrator Calibrate your Thermocouples, RTD's Sensors and Bi-Metal Thermometers Temperature Sensors

Features

- ▶ Low Temperature Range of -67°F to 285°F (-55°C to 140°C)
- ▶ Housed in a rugged case for field use
- ▶ Use as a Dry Block, a Liquid Bath, or as a Blackbody source for infrared thermometers
- ▶ Fast heat up and cool down times
- ▶ Optional Black Body Source Insert for Calibration of Infrared Thermometers
- ▶ Optional Stirred Liquid Bath Container
- ▶ Includes one multi-well insert

For more information visit our web site at:

www.tnp-instruments.com/microcal_tcs_dry_block_calibrator.html



TCS 650 Medium Temperature Block Calibrator Calibrate your Thermocouples, RTD's Sensors and Bi-Metal Thermometers Temperature Sensors

Features

- ▶ Medium Temperature Range of 95°F to 1200°F (35°C to 650°C)
- ▶ Housed in a rugged case for field use
- ▶ Use as a Dry Block, or as a Blackbody source for infrared thermometers
- ▶ Fast heat up and cool down times
- ▶ Optional Black Body Source Insert for Calibration of Infrared Thermometers
- ▶ Ideal for fast Calibration of Thermocouple and RTD Sensors
- ▶ Includes one multi-well insert

For more information visit our web site at:

www.tnp-instruments.com/microcal_tcs_dry_block_calibrator.html



TCS 1200 High Temperature Calibrator Calibrate your Thermocouples, RTD's Sensors and Bi-Metal Thermometers Temperature Sensors

Features

- ▶ High Temperature Range of 300°F to 2190°F (150°C to 1200°C)
- ▶ Housed in a rugged case for field use
- ▶ Use as a Dry Block, or as a Blackbody source for infrared Thermometers
- ▶ Optional Black Body Source Insert for Calibration of Infrared Thermometers
- ▶ Fast heat up and cool down times
- ▶ Excellent Stability and Accuracy
- ▶ Includes one multi-well insert

For more information visit our web site at:

www.tnp-instruments.com/microcal_tcs_dry_block_calibrator.html



BetaGauge 330 Hand Held High Performance Pressure Calibrator with Integrated Electric Pump

Features

- ▶ Integrated battery operated pneumatic pump generates high vacuum (-12 PSI/-0.8Bar) to 300 PSI/20 Bar
- ▶ 5 ranges of 30 PSI, 150 PSI and 300 PSI gauge and 30 PSI and 150 PSI absolute. The 300 PSI version uses a manually operated hand pump
- ▶ Accuracy of 0.025% of full scale on pressure measurement
- ▶ Source or measure 4 to 20mA including 2 wire transmitter simulation
- ▶ Pressure displayed in the user's choice of 16 engineering units
- ▶ External pressure module interface supports all 29 BetaPort-P pressure modules using optional BPPA-100 module adapter
- ▶ Pt100 RTD input for temperature measurement, accurate to 0.2°F (0.1°C) (measurement only)

or more information visit our web site at:

www.tnp-instruments.com/BetaGauge_330_Hand_Held_Pressure_calibrator.html



BetaGauge 311/321 Single or Dual Channel High Performance Pressure Calibrators

Features

- ▶ 311A Single or 321A Dual Channel Models
- ▶ 311A-EX Single Channel or 321-EX Dual Channel Intrinsically Safe
- ▶ 27 available pressure ranges
- ▶ Temperature-compensation ensures accuracy in the field applications
- ▶ Pressure displayed in the user's choice of 17 engineering units plus custom
- ▶ External pressure module interface supports all 29 BetaPort-P pressure modules using optional BPPA-100 module adapter 311A Single or 321A
- ▶ Pt100 RTD input for temperature measurement, accurate to 0.2°F (0.1°C) (measurement only)

For more information visit our web site at:

www.tnp-instruments.com/BetaGauge_330_Hand_Held_Pressure_calibrator.html



BetaGauge PI PRO Digital Pressure Calibration Test Gauge

Features

- ▶ General Accuracy of $\pm 0.05\%$ of FS ($\pm 0.04\%$ of Reading for Reference Class Verse)
- ▶ Temperature compensated accuracy over 0 to 50°C
- ▶ 17 standard pressure ranges available
- ▶ Large, back-lit, 5-1/2 digit display with 0.65" high digits and 20 segment bar graph
- ▶ Adjustable TARE zeros large system offsets
- ▶ Low battery indicator CSA intrinsically safe, Class 1, Div. 2 Groups A, B, C & D;
- ▶ ATEX approved; CE approved
- ▶ User-configurable damping smooth's readings from pulsating/plant air sources

For more information visit our web site at:

www.tnp-instruments.com/BetaGauge_pi_pro_digital_pressure_calibration_test_gauge.html



MECP 100 Hand Operated Pneumatic Pressure Calibration Pump

Features

- ▶ Generate both pressure and vacuum
- ▶ Operating Pressure Range: -12 to 100 PSI
- ▶ Maximum Working Pressure: 150 PSI
- ▶ Completely isolated vernier prevents heat transfer from hand
- ▶ Precision valve for bleed control
- ▶ Compatibility air

For more information visit our web site at:
www.tnp-instruments.com/mecp_pressure_pumps.html



MECP 500 Hand Operated Hydraulic Pressure Calibration Pump

Features

- ▶ Generate both pressure and vacuum
- ▶ Operating Pressure Range: -12 to 100 PSI
- ▶ Maximum Working Pressure: 150 PSI
- ▶ Completely isolated vernier prevents heat transfer from hand
- ▶ Precision valve for bleed control
- ▶ Compatibility air

For more information visit our web site at:
www.tnp-instruments.com/mecp_pressure_pumps.html



MECP10K Hand Operated Hydraulic Pressure Calibration Pump

Features

- ▶ Generate pressure
- ▶ Operating Pressure Range 0 to 10,000 PSI
- ▶ Maximum Working Pressure 10,000 PSI
- ▶ Completely isolated vernier prevents heat transfer from hand
- ▶ Precision valve for bleed control
- ▶ Compatibility most hydraulic fluids, oils and distilled water

For more information visit our web site at:
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