



Temperature & Process Instruments, Inc.



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Visit our **NEW** online Store at

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And Find the Dry Block Temperature Calibrator to meet your application needs

You will also find sensors and instruments for all your Temperature and Process needs Including

- ▶ Portable and Fixed Mount Infrared Thermometers
- ▶ Handheld or Benchtop Multifunction Temperature and Process Calibrators
- ▶ MIST Series Microprocessor based Integrated Sensor Transmitter
- ▶ Single Function Handheld Thermocouple, RTD and Process Loop Calibrators
- ▶ Portable and Fixed Mount Infrared Thermometers
- ▶ Portable and Laboratory Dry Block Calibrators
- ▶ Head Mounted Temperature Transmitters

Temperature & Process Instruments Inc.

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MicroCal TSC Series Dry Block Temperature Calibrators

The MicroCal TCS Series are designed to verify and calibrate temperature sensors, thermometers, and process transmitters in either the laboratory or in the field. Available in three models the TCS Series are fast, high stability and uniformity, easy to use temperature calibrators.

Features

- ▶ Three Models to Choose from Low, Medium and High Temperature Ranges
- ▶ Temperature Ranges -55°C from T Ambient to +1200°C
- ▶ Designed for Testing and Calibrating Temperature Sensors

- ▶ Compact and Rugged Easy to Use
- ▶ Optional Black Body Insert
- ▶ Microprocessor Based Temperature Controller
- ▶ High Accuracy & Stability
- ▶ Complete with Traceable Certificate of Calibration
- MicroCal TCS 140 Low Temperature Block Calibrator**
- ▶ Temperature Range: -67°F to 285°F (-55°C to 140°C)
- ▶ Stability: ±0.5°C
- ▶ Supplied Insert Hole: 1 x 4.8mm (1 x 0.188") 1 x 6.4mm (1 x 0.25")

MicroCal TCS 650 Medium Temperature Calibrator

- ▶ Temperature Range: 95°F to 1200°F (35°C to 650°C)
- Absolutely Stability: ±0.03°C @ 650°C
- ▶ Supplied Fixed Insert Well: 2 x 0.18in (4.5mm) 2 x 0.25in (6.4mm) 1 x 0.37in (9.5mm) 1 x 0.31in (8mm)

MicroCal TCS1200 High Temperature Calibrator

- ▶ Temperature Range: 300°F to 2190°F (150°C to 1200°C)
- ▶ Absolutely Stability: ± 0.2°C @ 1100°C
- ▶ Supplied Fixed Insert Well: 4 x 0.31 in (8mm)

Model	Description	Price
8161-1-1	MicroCal TSC140 Calibrator	\$4536.00
8165-1-1	MicroCal TSC650 Calibrator	\$3650.00
8167-1-1	MicroCal TSC1200 Calibrator	\$4599.00

Each instrument includes Extraction tool, Liquid Container, Vinyl carrying case, Calibration Certificate, and Instruction Manual

For Additional Models and Specifications

Visit our Web site at:

<http://www.tnp-instruments.com>

MicroCal T350 Portable Dry Block Temperature Calibrators

The Microcal T350 is a light and compact temperature calibrator, weighing only 7.7 lbs, with parts in stainless steel and aluminum. The case is a rugged ABS fitted with a handle which rotates with a spring mechanism, which makes it possible to operate in various positions. Temperature control is carried out by means of a microprocessor controller, with forced ventilation at variable speed for the stabilization and rapid sinking phase.

Features

- ▶ From Ambient to 660°F
- ▶ Designed for Testing and Calibrating Temperature Sensors
- ▶ Optional RS232 Serial Interface and CalpMan 2004 Windows Software

- ▶ Compact, Rugged, and Easy to Use
- ▶ Switch Test Input for Thermostats

Specifications

- ▶ Operative Temperature: From Ambient to +662°F
- Stability: 0.2°F
- ▶ Maximum Increase Gradient: 40°F/min (from ambient to 390°F)
- ▶ Maximum Decrease gradient: 20°F/min (from 390°F to 48°F)
- ▶ Display Resolution: 0.1°F
- ▶ Reading Accuracy: ±(0.8°F + 1 Digit)
- ▶ Insert dimensions: 1" x 5.5"
- ▶ Insertion Well depth: 4.9"
- ▶ Power Supply: 115/230Vac 50 Hz Power: 300W
- ▶ Insert Well Diameters: 1 x 0.18"; 1 x 0.26"; 1 x 0.37"

Model	Description	Price
8150	MicroCal T350 Calibrator	\$2760.00

Each instrument includes instruction manual, insert wells and calibration certificate.

For Additional Models and Specifications

Visit our Web site at:

<http://www.tnp-instruments.com>



Price Start at **\$3650.00**



Price Start at **\$2760.00**

UCAL400+ and MicroCal T30 Portable Dry Block Calibrators

UCal400+ Portable Dry Block Temperature Calibrator

The UCAL 400+ is portable calibrator with a temperature range from 5°C (9°F) above ambient up to 430°C (806°F).

- ▶ Independent over-temperature cutout
- ▶ Wide temperature range of ambient to 430°C/806°F
- ▶ Built rugged for portable field use
- ▶ Fast heat up and cool down
- ▶ Interchangeable Calibration Blocks
- ▶ Temperature sensor burnout protection
- ▶ Only 9 lbs. with insert



Model	Description	Price
3028900	UCAL400+ Portable Dry Block 120Vac	\$1933.00
3028950	UCAL400+ Portable Dry Block 230Vac	\$1933.00

The UCAL400+ includes one multi-well insert (1/8", 3/16", 1/4", 5/16" & 3/8" well sizes), mains cable, insert extractor, NIST traceable certificate and instruction manual.

MicroCal T30 Portable Dry Block Temperature Calibrator



MicroCal T30 dry-block allow users to check the accuracy of thermometers and sensors as a system on site, without the need for heavy, expensive equipment. Simply plug in, switch on and set the the temperature that you wish to check. Insert the probe into the correct size well and take the reading.

Compare the temperature reading of the thermometer and probe to the displayed temperature of the dry-well and the difference is the error of your instrument.

Features

- ▶ Lightweight & Easy to use
- ▶ "Fan Cooled" Aluminum Block
- ▶ Temperature Range: Ambient to 300°C @ 20°C
- ▶ Stability: ±0.5°C
- ▶ Supplied Insert Hole: 1 x 4.8mm (1 x 0.188") 1 x 6.4mm (1 x 0.25")

Model	Description	Price
8158	MicroCal T30 Calibrator	\$1146.00

Supplied in 120Vac each units includes carrying case and NIST traceable certificate.

NEW TECAL "F" Series Portable Dry Block Calibrators

The NEW lower cost TECAL F Series offers a basic, single setpoint controller and display. The TECAL F Series come in three temperature ranges, one of which surely meets your requirements: -25 to 140°C, 40 to 425°C and 45 to 650°C. These units are ideal for testing and calibration of Thermocouples, RTD's and Microprocessor based Integrated Sensor Transmitter (MIST) Series, temperature sensors.



TECAL 140F Low Temperature Dry Block Calibrator

The TECAL 140F, low temperature range field calibrator features a temperature range -20°C to 140°C (-4°F to 284°F) in a 20°C ambient. It's stability is +/-0.05 with Accuracy of +/-0.3°C. Available in 120Vac or 230Vac.

TECAL 425F Medium Temperature Dry Block Calibrator

The TECAL 425F middle temperature range field calibrator has a temperature range of ambient +20°C to 425°C (797°F). Stability of +/-0.02 at 200°C at an accuracy of +/- 0.3°C. Available in 120Vac or 230Vac.

TECAL 650F High Temperature Dry Block Calibrator

The TECAL 650F high temperature range field calibrator works from ambient +25°C and to 650°C (1202°F) with a stability of +/- 0.09. Available in 120Vac or 230Vac.

Model	Description	Price
FDB140FS	TECAL 140F Low Temperature 120Vac	\$3795.00
FDB140FR	TECAL 140F Low Temperature 230Vac	\$3795.00
FDB425FS	TECAL 425F Mid Temperature 120Vac	\$2595.00
FDB425FR	TECAL 425F Mid Temperature 230Vac	\$2595.00
FDB650FS	TECAL 650H High Temperature 120Vac	\$3595.00
FDB650FR	TECAL 650F High Temperature 230Vac	\$3595.00

Each unit includes a multi-well insert, NIST traceable calibration, insert removal tool and industry leading 3 year warranty.

For Additional Models and Specifications

Visit our Web site at:

<http://www.tnp-instruments.com>

TECAL "H" Series Laboratory Dry Block Calibrators



TECAL 140H Low Temperature Dry Block Calibrator

Model TECAL 140H is our top of the line, fully programmable unit temperature range -25 to 140°C (284°F). Available in 120Vac or 230Vac.

TECAL 425H Medium Temperature Dry Block Calibrator

The model TECAL 425H is fully programmable temperature range ambient +20 to 425°C (797°F). Available in 120Vac or 230Vac.

TECAL 650H High Temperature Dry Block Calibrator

Model TECAL 650H is fully programmable temperature range ambient +25 to 650°C (1202°F). Available in 120Vac or 230Vac.

Model	Description	Price
3026000	TECAL 140H Low Temperature 120Vac	\$6115.00
3026600	TECAL 140H Low Temperature 230Vac	\$6115.00
3026200	TECAL 425H Mid Temperature 120Vac	\$4940.00
3026800	TECAL 425H Mid Temperature 230Vac	\$4940.00
3026400	TECAL 650H High Temperature 120Vac	\$6077.00
3027000	TECAL 650F High Temperature 230Vac	\$6077.00

Each unit includes a multi-well insert, NIST traceable certificate, insert removal tool and industry leading 3 year warranty.

For your convenience

Temperature & Process Instruments, Inc. accepts these major credit cards. Visit us at:

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