



Temperature & Process Instruments, Inc.



Temperature & Process Instruments, Inc.
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
 - ▶ Head Mounted or Din Rail Mounted Temperature Transmitters
 - ▶ MIST Series Microprocessor based Integrated Sensor Transmitter
 - ▶ Single Function Handheld Thermocouple, RTD and Process Loop Calibrators
 - ▶ Temperature and Process Panel Meters
 - ▶ New Indoor Air Quality (IAQ) Instrumentation
 - ▶ New Refrigerant and Combustible Gas Detector

Temperature & Process Instruments Inc.
1767 Central Park Avenue
Suite 112

Yonkers, NY 10710

Phone: 1-914-673-0333 Fax: 1-866-292-1456

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

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	\$4690.00
8165-1-1	MicroCal TSC650 Calibrator	\$3990.00
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>



Price Start at **\$3990.00**

BBS Series Black Body Infrared Thermometer Calibrator

BBSL, BBSM, and BBSH Series Black Body Calibrators for Non-Contact Infrared Pyrometers



Price Start at **\$3450.00**

Features

- ▶ Three Models to Choose From
- ▶ Temperature Range up to 1200
- ▶ Excellent Stability and Accuracy
- ▶ High Emissivity and Wide Aperture
- ▶ Ideal for fast Calibration of IR Pyrometers

The economically BBS Series of Black Body calibrators are designed to verify or calibrate non-contact infrared thermometers in either the laboratory or the field. Choose from three different models, the BBSL low temperature 10°C above ambient to 350°C (662°F), BBSM medium temperature 20°C above ambient to 600°C (1100°F) or the BBSH high temperature 500°C above ambient to 1200°C (2190°F).

Specifications

Temperature Range: BBSL 10°C above ambient to 350°C (662°F); BBSM: 20°C above ambient to 600°C (1100°F); BBSH: 500°C above ambient to 1200°C (2190°F)

Emissivity: BBSL, BBSM 0.97 to 0.98; BBSH better the 0.97

Accuracy: ±0.5% of indicated temperature BBSL 1°C; BBSM 2°C; BBSH 3°C

Stability: BBSL, BBSM: ± 0.5°C; BBSH ± 1.5°C

Aperture Size: 25mm

Model	Description	Price
BBSL	Low Temperature BB Calibrator	\$3450.00
BBSM	Mid Temperature BB Calibrator	\$3963.00
BBSH	High Temperature BB Calibrator	\$4910.00

Each instrument includes Power Cord, NIST Report of Calibration and Instruction Manual.

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

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). Its rugged design is ideal for field testing and checking temperature sensor such as MIST Sensors, thermocouple or RTD probes right in the plant or can



be used on a laboratory bench. There are 10 insert blocks that are interchangeable, each insert block is made using a machined aluminum achieving excellent heat transfer. Even though the unit heats up rapidly, highly efficient insulation ensures that the case remains cool enough to handle even at maximum operating temperatures.

Features

- ▶ 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
- ▶ Built in program for thermal switch testing
- ▶ Two Year Warranty

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.

For Additional Models and Specifications
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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
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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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