

DRY BLOCK TEMPERATURE CALIBRATORS

FROM ACCURATE THERMAL SYSTEMS

MODEL THERMCAL400 TEMPERATURE CALIBRATOR



- Laboratory performance at an economical price
- Lightweight and portable for use in the field
- Removable probe inserts for flexibility & many probe sizes
- Adjustable ramp rate for testing thermal switches
- CE marked for safety

With over 25 years of experience designing, manufacturing and supporting Dry Block Temperature Calibrators we have developed two units that offer outstanding performance, features and value that are unmatched. These units have a small footprint, fast heat up and cool down and are light weight for both field and laboratory use. Unlike many competing lower cost models that only offer a fixed block our units accept inserts for probe size flexibility in addition to fixed holes.



APPLICATIONS

Temperature sensor calibration including:

- RTD's/PRT's
- Thermocouples
- LIG thermometers
- Thermal switches
- Dial thermometers
- Hand held digital indicators
- Infrared sensors and ..thermometers
- Data loggers & recorders
- .. and many others

BENEFITS

Fast heat up & stabilization

Economical price

Operates ambient +5°C to 455°C/851°F

Lightweight

CE marked

Designed & manufactured in the USA

THERMCAL400

FEATURES AND SPECIFICATIONS

WHAT'S INCLUDED

- ThermCal400 calibrator
- multiwell insert to accept 1/8", 3/16", 1/4", 5/16", & 3/8" diameter probes and metric equivalents
- Carrying strap
- Insert removal tool
- Mains cable
- NIST Traceable calibration certificate

WHAT DO I NEED TO RUN THE SYSTEM

- 120 or 240 VAC mains supply 50/60hz
- 8 amp supply (120 volt)
- 4 amp supply (240 volt)

SERVICES AVAILABLE

- Technical support
- Application support
- Traceable calibrations



The ThermCal400 controller offers a large, bright and easy to read display. The unit is switchable between °F and °C along with the ability to easily adjust unit calibration in the field or laboratory using your own temperature standards.

Independent limit control is incorporated into the unit to prevent operation and/or fault conditions above 460°C. A cooling fan keeps the internal components and controller cool at all operating temperatures for improved accuracy and stability.

ThermCal400 includes everything you need to operate it straight out of the box. We offer several optional inserts and carrying case listed below.



Specifications and Ordering

ThermCal400	
Temperature range (20°C ambient)	25°C (77°F) to 455°C (850°F)
Accuracy	±0.4°C or ±0.7°F (up to 400°C/752°F) ±0.6°C or ±1.0°F (400°C/752°F to 455°C/850°F)
Stability	±0.05°C/±0.09°F
Radial uniformity (same sized wells)	0.020 at 200°C and 0.058 at 400°C
Heat up time – ambient to max	12 minutes
Cool down time – max to 100°C	20 minutes
Probe well depth & insert diameter	4.5" depth by 1.5" diameter
Power consumption	900 watts
Overall dimensions	8" H x 8" W x 8" L
Weight with insert	11 pounds
Warranty	2 years
Ordering information	120 volt model: ATS3010, 240 volt model: ATS3020
Optional Accessories	
Insert 5 x 1/4" wells – ATS3043	1 x 9/16" & 1 x 1/4" wells – ATS3048
Insert 2 x 1/4" & 2 x 3/8" wells – ATS3044	Insert 1 x 5/8" & 1 x 1/4" wells – ATS3049
Insert 2 x 1/4" & 2 x 1/2" wells – ATS3045	Insert 1 x 11/16" & 1 x 1/4" wells – ATS3050
Insert 1 x 1/4" wells – ATS3046	Insert 1 x 3/4" & 1 x 1/4" wells – ATS3051
Insert blank – ATS3047	Insert, 1 x 1/8, 3/16, 1/4, 5/16, 3/8 – ATS3041
Soft sided carrying case – ATS3052	Black body insert for Infrared work - ATS3129



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