# DRY BLOCK TEMPERATURE CALIBRATORS
## FROM ACCURATE THERMAL SYSTEMS

## MODEL THERMCAL400 TEMPERATURE CALIBRATOR

### APPLICATIONS

Temperature sensor calibration including:

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

### BENEFITS

Fast heat up & stabilization

Operates ambient +5°C to 400°C/752°F

Lightweight

RS485 interface for PC connection

CE marked

Designed & manufactured in the USA

- 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.

## ACCURATE THERMAL SYSTEMS
### BETTER BY DEGREE

# ThermCal400

## WHAT'S INCLUDED

-ThermCal400 calibrator
-multiwell insert to accept 1/8", 3/16", 1/4", 5/16", & 3/8" diameter probes
-Carrying strap
-Insert removal tool
-Mains cable
-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
-Installation and setup
-Maintenance

V4 917

# Features and Specifications

The ThermCal400 controller offers a large, bright and easy to read display. This controller has advanced 5 zone PID control for optimum performance and adjustable ramp rates for proper testing of thermal switches. The unit is switchable between °F and °C along with the ability to easily adjust unit calibration using your own temperature standards.

Independent limit control is incorporated into the unit to prevent operation and/or fault conditions above 425°C. A cooling fan keeps the internal components and controller cool at all operating temperatures.

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 (22°C ambient) | 27°C (80°F) to 400°C (752°F) |
| Accuracy | ±0.4°C or ±0.7°F |
| Stability | ±0.05°C/±0.09°F |
| Radial uniformity (same sized wells) | 0.025 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<br>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 | 1 x 3/4" & 1 x 1/4" wells – ATS3051 |
| Insert blank – ATS3047 | Soft sided carrying case – ATS3052 |