



UCal 400+ Portable Dri-Block Calibrator

Calibrate your temperature sensors and systems with our economically priced portable unit!

Key Features

- Wide temperature range
- Built in program for thermal switch testing
- Maximum temperature of 430°C/806°F
- Fast heat up and cool down
- 10 insert formats available
- Independent over-temperature protection
- Only 9 lbs with included multi-well insert and NIST cert

The UCAL400+ Calibrator provides a safe, dry and constant temperature source, and can be used either on a bench top or as a portable field unit. The unit covers the temperature range from 5°C above ambient up to 430°C using a machined aluminum insert block as the heat transfer medium. The temperature control circuit is built into the unit. Even though the unit heats up rapidly, highly efficient insulation ensures that the case remains cool enough to handle even at maximum operating temperatures. This calibrator has been designed to comply with all relevant Radio Frequency interference and electrical safety regulations.

Technical Specifications

Temperature Range	5°C/9°F above ambient to 430°C/806°F
Cooling Rate	400°C to 100°C - 21 min
Heating Rate	20°C to 400°C - 12 min
Over-Temp Cutout	Approx. 450°C
Specification at:	Stability after 15 minutes
200°C	+/- 0.03°C (Accuracy +/-0.3°C)
400 °C	+/- 0.05°C (Accuracy +/-0.5°C)
Well Uniformity	0.015°C @ 200°C/ 0.025°C @ 400°C
Display Resolution	0.1°
Fan Cooling	Automatic
Weight	9 lbs
Insert Immersion	4.5"
Dimensions (W x D x H)	20.3 x 20.3 x 22.2 cm
Power	120/240V, 900W

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

Accessories

7032718	Carrying case
7032722	Insert extractor
7002705	120V mains cable
7002712	Instruction manual

Ordering Information

Product Code	Model	Net Weight (lbs)
3028900	UCAL400+, 120V, 50/60Hz, 900W	9.0
3028950	UCAL400+, 240V, 50/60Hz, 900W	9.0
7032533	Insert 5 x 1/4" probes	1.1
7032534	Insert 3/8" + 5/16" + 1/4" + 3/16" + 1/8" probe	1.1
7032535	Insert 2 x 3/8" + 2 x 1/4" probes	1.1
7032536	Insert 2 x 1/2" + 2 x 1/4" probes	1.1
7032537	Insert 1 x 1/4" probes	1.1
7032538	Insert blank	1.1
7032574	Insert 1 x 9/16" + 1 x 1/4" probe	1.1
7032575	Insert 1 x 5/8" + 1 x 1/4" probe	1.1
7032576	Insert 1 x 11/16" + 1 x 1/4" probe	1.1
7032577	Insert 1 x 3/4" + 1 x 1/4" probe	1.1



UCal 400+



Ordering Information

Tecal 140F / 140H / 425F / 425H / UCal 400+ Inserts (4.5" immersion depth)

Product Code	Description	Net weight (lbs)
7032533	Insert 5 x 1/4" probes aluminum	1.1
7032534*	Insert 3/8" + 5/16" + 1/4" + 3/16" + 1/8" probe aluminum	1.1
7032535	Insert 2 x 3/8" + 2 x 1/4" probes aluminum	1.1
7032536	Insert 2 x 1/2" + 2 x 1/4" probes aluminum	1.1
7032537	Insert 1/4" probe aluminum	1.1
7032538	Insert blank aluminum	1.1
7032574	Insert 9/16" & 1/4" probe aluminum	1.1
7032575	Insert 5/8" & 1/4" probe aluminum	1.1
7032576	Insert 11/16" & 1/4" probe aluminum	1.1
7032577	Insert 3/4" & 1/4" probe aluminum	1.1

*Included with each Tecal 140F/H, 425 F/H and UCal 400+

Tecal 650F / 650H Inserts (6" immersion depth)

Product Code	Description	Net weight (lbs)
7032539	Insert 5 x 1/4" probes aluminum bronze	2.4
7032540*	Insert 3/8" + 5/16" + 1/4" + 3/16" + 1/8" probes aluminum bronze	2.4
7032541	Insert 2 x 3/8" + 2 x 1/4" probes aluminum bronze	2.4
7032542	Insert 2 x 1/2" + 2 x 1/4" probes aluminum bronze	2.4
7032543	Insert 1 x 1/4" probe aluminum bronze	2.4
7032544	Insert blank aluminum bronze	3.3
7032570	Insert 9/16" & 1/4" probe aluminum bronze	2.4
7032571	Insert 5/8" & 1/4" probe aluminum bronze	2.4
7032572	Insert 3/4" & 1/4" probe aluminum bronze	2.4
7032573	Insert 11/16" & 1/4" probe aluminum bronze	2.4

*Included with each Tecal 650F/H