



UCal 400+

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 4Kg 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 Specification

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 to well Uniformity	0.015°C @ 200°C/ 0.025°C @ 400°C
Display Resolution	0.1°
Fan Cooling	Automatic
Weight	4kg
Insert Immersion	114.3mm
Dimensions (W x D x H)	20.3 x 20.3 x 22.2 cm
Power	120 or 240V, 900W

¹ The UCAL400+ includes one multi-well insert FINSALB (Ø10, 8, 6, 4.5, 3mm well sizes), power cable, insert extractor, NIST traceable calibration certificate and instruction manual.

Options

- Inserts from standard list type FINSAL-
- Cooling probe for rapid cooling of block
- Carry case soft
- UKAS calibration certificate

Ordering Information

Product Code	Model	Net Weight (kg)
FDBU400D	UCAL400+, 230V, 50/60Hz, 900W	4.0
FDBU400P	UCAL400+, 120V, 50/60Hz, 900W	4.0

The Cooling Probe can be used to rapidly cool the insert – chilled water passes through the probe that fits inserts with 10mm ø hole or larger.

Accessories

Product Code	Model	Net Weight (kg)
FDB00CP	Cooling Probe for 425,650,700X, UCAL400+	0.4kg
7032718	Soft Carry case for Ucal400+	2.3kg