

UBC2001 (MkII) Block Calibrator

The UBC2001 (MkII) Dry-well Block Temperature Calibrator is designed to check the accuracy of temperature sensors and thermometers. Its hand-held size means true portability, even to the tightest corner of your plant.

It's simple and convenient to use and even at 350°C its stainless steel case is cool enough to hold in your hand. Because the UBC2001's aluminium block is fan assisted it heats, cools and stabilises in minutes - much quicker than many larger block calibrators. The UBC2001's compact size, low cost and versatility make it ideal for use as part of your quality and traceability regime.



£980
Standard Kit

The UBC2001 is constructed with an aluminium block with a main well (hole/pocket), which takes interchangeable sleeves in a wide range of popular probe sizes. The block also has a reference well, so if required, it can be used as a heat source reference, for comparison against an external standard (rather than the built-in display), in conjunction with a thermal uniformity survey of the block. Since the block is fixed, the block cannot be changed by the user or modified for another block (only the sleeves are interchangeable). It also features a test circuit and buzzer for accurately checking thermostat switching temperatures. A stability indication light, shows when it has stabilised at temperature after an adjustable duration.

If higher accuracy is required, see our BC2001 which has a single fixed block. For higher temperatures or larger probes, see our UBC2010, which also takes interchangeable sleeves.

General Specification

Range: 35°C* to 350°C (95°F to 662°F[†]) * From 15°C above ambient temperature.

Heating Time: 20°C to 350°C 10 minutes, plus 4 minutes stabilisation time (14 minutes total)

Cooling Time: 350°C to 70°C 26 minutes

Size: Body: 120mm x 50mm x 160mm, Extremities: 140 x 60 x 190mm (without lead)
(WxHxD) (Body: 5" x 2" x 6.5" approx., Extremities: 5.5" x 2.4" x 8" approx.)

Weight: 1.25kg (2.8lbs)

Power: **240V model:** 230V ac ±15%, 50/60Hz, 150W. Comes with UK 13A style plug lead.

110V model: 115V ac ±15%, 50/60Hz, 150W. Comes with 16A round yellow plug lead.

The detectable lead connects via an IEC 60320 C14 inlet. Other leads are available at additional cost.

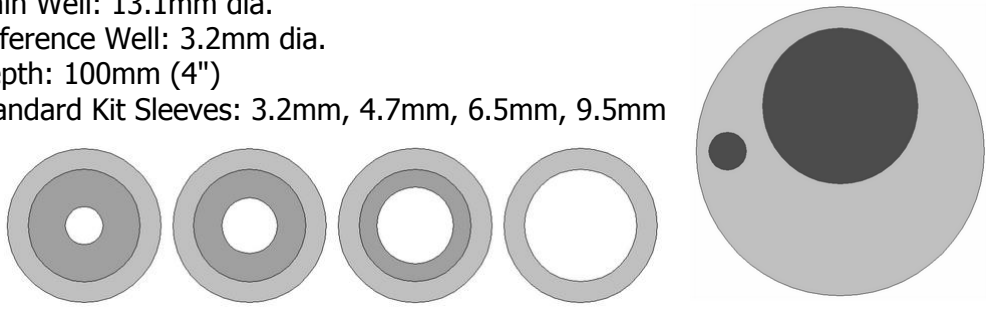
Certification: UKAS (ISO17025) Calibration & Thermal Survey optional at extra cost.

Carry Case: The Standard Kit comes with a foam lined black plastic case.
Carry Case Size: 300 x 130 x 350mm (WxHxD)

Warranty: 2 years

This datasheet applies to the current model only, for information on units purchased previously please contact us. [†] Temperature Scale (°C/°F) cannot be changed by the user. Prices exclude VAT and carriage. Price correct at the time of publication. Price and specification subject to change without notice.

Block Specification

		UBC2001 (MkII)	
Accuracy:- With built-in display. For Main Well only.	35 to 180 °C	± 0.4°C	(±0.72°F)
	181 to 280 °C	± 0.7°C	(±1.26°F)
	281 to 350 °C	± 0.9°C	(±1.62°F)
Stability:-	35 to 180 °C	± 0.1°C	(±0.18°F)
	181 to 280 °C	± 0.2°C	(±0.36°F)
	281 to 350 °C	± 0.3°C	(±0.54°F)
Radial (Well-to-well) Uniformity: (Only if using probe comparison method.)	35 to 180 °C	1.0°C (/ ± 0.5°C)	
	181 to 280 °C	1.8°C (/ ± 0.9°C)	
	281 to 350 °C	2.2°C (/ ± 1.1°C)	
Partial Immersion Uniformity: (At 20mm back.)	35 to 180 °C	0.6°C (/ ± 0.3°C)	
	181 to 280 °C	1.4°C (/ ± 0.7°C)	
	281 to 350 °C	1.8°C (/ ± 0.9°C)	
Block Details:	Main Well: 13.1mm dia. Reference Well: 3.2mm dia. Depth: 100mm (4") Standard Kit Sleeves: 3.2mm, 4.7mm, 6.5mm, 9.5mm		
			

Ordering Codes

Voltage:	Temperature Scale:	Example: UBC2001/240/C Is 240V, °C.
240	C	
110	F	

Standard Kit **£980**

The Standard Kit includes the block calibrator (& ancilleries), carry case, and a set of 4 sleeves: 3.2mm, 4.7mm, 6.5mm, 9.5mm (S3HT, S4HT, S6HT, S9HT).

Block Calibrator with choice of sleeves

Includes the block calibrator (& ancilleries). Carry case (optional). Choice of sleeve(s), see next pages. Please contact us with your requirements for prices.

Optional UKAS Calibration (at TMS standard points) +£220








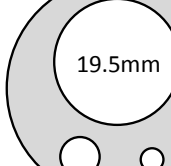
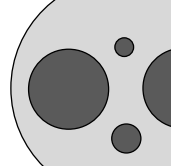
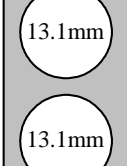
The calibration of the block calibrator in 1 well at 3 temperatures: 60, 150 and 300°C at full and partial immersion, and 1 survey of all wells at 150°C. Lead time is typically 6 to 10 days (on top of availability of the block calibrator). For calibration at different temperature points, additional survey points, in a specified well (or wells), please contact us for a price.

TMS Europe Ltd is a UKAS accredited calibration laboratory No. 0461. We are ISO 17025 accredited for calibration on site and in our laboratory, as defined in our Schedule Of Accreditation (see www.tmseurope.co.uk/soa).



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Block Calibrator range from TMS Europe

				
BC 2001	UBC 2001	UBC 2010	UBC 2020	UBC 1001
350 °C Multi-Well (Choice of block)	350 °C 1x Interchangeable Small Sleeve	500 °C 1x Interchangeable Large Sleeve	500 °C 2x Interchangeable Small Sleeve	-15 to +125 °C 2x Interchangeable Small Sleeve
 2.2mm ... 6.2mm	 13.1mm 3.2mm	 19.5mm 6.3mm 3.2mm	 2x 13.1mm 3.2mm, 6.2mm	 13.1mm 13.1mm



TMS Europe Ltd was established in 1979 and has designed and manufactured block calibrators in the UK since 1999.



After Sales Service & Warranty

Each unit has a 2 year return to base warranty against manufacturing defects from the date of purchase from TMS Europe and covers normal use of the unit in accordance with its instruction manual.

It does not cover excessive 'wear and tear', stuck probes or damage caused by liquid or oil ingress or incorrect supply voltage selection. Under the warranty any manufacturing defects will be rectified by TMS Europe at no charge. 'Return to base' means the customer is responsible for return of the unit to TMS Europe's site (Derbyshire, UK) for assessment with a view to repairing under warranty. For any work performed that is solely covered by the warranty TMS Europe will provide return shipment of the unit within the UK and Republic of Ireland at no charge.

Whilst TMS Europe stocks a range of spares and aims to resolve any warranty repairs quickly, typically within 3 - 8 working days, the warranty does not guarantee this or any provision of a loan unit while the customer's unit is with us.

Part of a range of calibration solutions from TMS Europe



TMS Block Calibrator Sleeves

We manufacture a range of sleeve inserts for use in our UBC ranges of dry well block calibrators. These are normally available from stock. All our HT coded high temperature sleeves listed below are anodised aluminium suitable for use up to 500°C in TMS dry well block calibrators. Other sleeves with bespoke sizes may also be available on request, with single prices from £150 and typical lead time being 4-8 weeks.

Small Sleeves For UBC2001, UBC1001.

TMS Stock Code	Short Code	Intended Probe Diameter		Sleeve Diameter ID (Inside)	Sleeve Length Well	Price Each
		Metric	Imperial			
BLKUNS-S2HT	S2HT	2mm, 1.5mm	1/16"	2.2mm (6.5mm)	60mm (40mm)	£50
BLKUNS-S3HT	S3HT	3mm	-	3.2mm	100mm	£40
BLKUNS-S3PHT	S3PHT	-	1/8"	3.5mm	100mm	£50
BLKUNS-S42HT	S42HT	4.0mm	5/32"	4.2mm	100mm	£50
BLKUNS-S4HT	S4HT	4.5mm	-	4.7mm	100mm	£40
BLKUNS-S5PHT	S5PHT	-	3/16"	5.1mm	100mm	£50
BLKUNS-S6HT	S6HT	6mm	1/4"	6.5mm	100mm	£40
BLKUNS-S7HT	S7HT	7mm	-	7.2mm	100mm	£50
BLKUNS-S8HT	S8HT	8mm	5/8"	8.4mm	100mm	£50
BLKUNS-S9HT	S9HT	9mm	-	9.5mm	100mm	£40

(Outside Diameter of Small Sleeves is 13mm, Total Sleeve Length is 106mm.)

<u>Sleeve Packs</u>	Containing	TMS Stock Code	Price Total
Pack of 4 Small Sleeves	S3HT, S4HT, S6HT, S9HT	BLKUNS-KS1HT	£130

(Large Sleeves are also available for use in the UBC2010. Small Sleeves can be used with the UBC2010 in conjunction with an adaptor.)

