

UBC2010 (MkII) Block Calibrator

A portable Block Calibrator with interchangeable inserts to fit probes from 19mm to 1.5mm.

The UBC2010 Block Calibrator uses interchangeable Large sleeve inserts to fit a wide range of popular temperature sensor probe and thermostat diameters. The main pocket is 19.5mm in diameter and is available with a range of sleeves to fit various large diameter probes. The convenient size of the UBC2010 means true portability. Simply set the temperature, and the fan-assisted aluminium block will heat and stabilise at the setpoint within minutes. A stability indication light shows when it has stabilised at temperature after an adjustable duration. It also features a test circuit and buzzer for accurately checking thermostat switching temperatures.



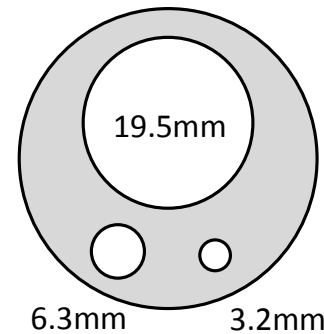
£2,080
(Without Sleeves)

Its competitive price, accuracy and versatility make it at home in the factory, quarry or commercial premises that requires checking or validation of temperature equipment.

Specifications

Range:	50°C to 500°C	(122°F to 932°F*)
Accuracy: <small>(Main well, built-in display.)</small>	50°C to 280°C	± 0.4°C
	280°C to 350°C	± 0.6°C
	350°C to 500°C	± 0.8°C
Well-to-Well	50°C to 180°C	0.4°C (/ ±0.2°C)
Uniformity:	180°C to 280°C	0.8°C (/ ±0.4°C)
	280°C to 500°C	1.2°C (/ ±0.6°C)
Partial Immersion	50°C to 280°C	1.2°C (/ ±0.6°C)
Uniformity: <small>(At 20mm back.)</small>	280°C to 500°C	1.8°C (/ ±0.9°C)
Stability: <small>(With built-in display.)</small>	50°C to 350°C	± 0.1°C
	350°C to 500°C	± 0.2°C
Heating Time:	20°C to 500°C	16 minutes, plus 4 minutes stabilisation time (20 minutes total)
Cooling Time:	500°C to 100°C	34 minutes
	500°C to 70°C	46 minutes (in 20°C ambient)
Well Depths:	100mm (4")	
Body Size:	225mm x 105mm x 270mm (310mm with handle)	(WxHxD)
Ambient operating temperature:	0 - 35°C	
Power:	230Vac ±15% 2.5A, or 115Vac ±15% 5.5A (changeable [†]), 50/60Hz, via an IEC C13 inlet, supplied with UK power lead. <650W. (Other leads are available at additional cost.)	
Certification:	UKAS (ISO17025) Calibration & Thermal Survey optional at extra cost.	
Sleeves/Inserts:	Ordered separately at extra cost to match use requirements.	
Carry Case:	Foam lined black plastic case included in the Standard Kit. 460 x 390 x 150mm (WxDxH)	

Block (Fixed build.)



For Large Sleeves / Inserts

A range of sizes are offered for probes from 16mm to 1.5mm. (See page 3.)

Weight: 3.75kg (Without sleeves)

Warranty: 2 years

This datasheet applies to the current model only, for information on units purchased previously please contact us. Prices exclude VAT and carriage. Price correct at the time of publication. Price and specification subject to change without notice. Sleeves from previous models or those not designed for the unit may discolour or deteriorate above 400°C.

* Temperature Scale (°C/°F) cannot be changed by the user. A version operating in °F is available on request.

† The operating voltage can easily be changed, by a competent person, by removal and reorientation of the fuse holder/voltage selector. Mismatching of the operating voltage may cause damage to the unit that is not covered by the warranty.

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



The calibration of the block calibrator in 1 well at 3 temperatures: 80, 280 and 480°C at full and partial immersion, and 1 survey of all wells at 280°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).

Block Calibrator range from TMS Europe

H O T				
	BC 2001 350 °C	UBC 2001 350 °C	UBC 2010 500 °C	UBC 2020 500 °C
	Multi-Well (Choice of fixed block)	1x Interchangeable Small Sleeve	1x Interchangeable Large Sleeve	2x Interchangeable Small Sleeves
	'Block 1' Build 2.2, 3.2, 4.7, 5.1, 6.2mm	13.1mm 3.2mm	19.5mm 6.3mm 3.2mm	2x 13.1mm 3.2mm 6.2mm
C O L D				 13.1mm 13.1mm
	UBC 1021 -10 to +110 °C	UBC 1001 -15 to +125 °C	UBC 1051 -30 to +125 °C	2x Interchangeable Small Sleeves From ambient of 20°C



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.

TMS Ref-Therm Thermometers



3mm probe reference thermometers with 0.01° resolution. With UKAS calibration at multiple points, including: -18, 0, 70, 100, 120, 165°C.

An external reference standard can be sent away for calibration, separate from the block calibrator, to save time.

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 unit prices from £150 and typical lead time being 4-8 weeks. Unanodised 'blank' sleeves can also be supplied to customers equipped to perform their own precision machining and anodising.

Small Sleeves

For UBC2001, UBC1001, UBC1021, UBC1051, UBC2020. Also for UBC2010 if used in conjunction with an L13HT sleeve as an adaptor.

TMS Stock Code	Short Code	Intended Probe Diameter		Sleeve Diameters		Sleeve Lengths		Price Each
		Metric	Imperial	ID (Inside)	OD (Outside)	Well	Total	
BLKUNS-S2HT	S2HT	2mm, 1.5mm	1/16"	2.2mm (6.5mm)	13mm	60mm (40mm)	106mm	£60
BLKUNS-S3HT	S3HT	3mm	-	3.2mm	13mm	100mm	106mm	£40
BLKUNS-S3PHT	S3PHT	-	1/8"	3.5mm	13mm	100mm	106mm	£60
BLKUNS-S42HT	S42HT	4.0mm	5/32"	4.2mm	13mm	100mm	106mm	£60
BLKUNS-S4HT	S4HT	4.5mm	-	4.7mm	13mm	100mm	106mm	£40
BLKUNS-S5PHT	S5PHT	-	3/16"	5.1mm	13mm	100mm	106mm	£60
BLKUNS-S5HT	S5HT	5mm	-	5.2mm	13mm	100mm	106mm	£60
BLKUNS-S62HT	S62HT	6mm	-	6.2mm	13mm	100mm	106mm	£60
BLKUNS-S6HT	S6HT	6mm	1/4"	6.5mm	13mm	100mm	106mm	£40
BLKUNS-S7HT	S7HT	7mm	-	7.2mm	13mm	100mm	106mm	£60
BLKUNS-S8HT	S8HT	8mm	5/16"	8.4mm	13mm	100mm	106mm	£40
BLKUNS-S9HT	S9HT	9mm	-	9.5mm	13mm	100mm	106mm	£40
BLKUNS-S97HT	S97HT	9.5mm	3/8"	9.7mm	13mm	100mm	106mm	£60
BLKUNS-S10HT	S10HT	10mm	-	10.2mm	13mm	100mm	106mm	£60

Large Sleeves

For UBC2010

TMS Stock Code	Short Code	Intended Probe Diameter		Sleeve Diameters		Sleeve Lengths		Price Each
		Metric	Imperial	ID (Inside)	OD (Outside)	Well	Total	
BLKUNS-L6HT	L6HT	6mm	1/4"	6.8mm	19.3mm	140mm	146mm	£50
BLKUNS-L8HT	L8HT	8mm	5/16"	8.4mm	19.3mm	140mm	146mm	£80
BLKUNS-L10HT	L10HT	10mm	3/8"	10.5mm	19.3mm	140mm	146mm	£50
BLKUNS-L12HT	L12HT	12mm	-	12.3mm	19.3mm	140mm	146mm	£80
BLKUNS-L13HT	L13HT	13mm	1/2"	13.3mm	19.3mm	140mm	146mm	£50
BLKUNS-L14HT	L14HT	14mm	-	14.3mm	19.3mm	140mm	146mm	£50
BLKUNS-L15HT	L15HT	-	9/16"	15.0mm	19.3mm	140mm	146mm	£80
BLKUNS-L16HT	L16HT	16mm	5/8"	16.5mm	19.3mm	140mm	146mm	£80

Sleeve Packs

	Containing	TMS Stock Code	Price Total	
Pack of 4 Small Sleeves	S3HT, S4HT, S6HT, S9HT	BLKUNS-KS1HT	£130	(Standard Kit of some models)
Pack of 6 Small Sleeves	2x S3HT , S4HT, S6HT, S8HT , S9HT	BLKUNS-KS2HT	£180	(+£50 upgrade from Std. Kit)
Pack of 4 Large Sleeves	L6HT, L10HT, L13HT, L14HT	BLKUNS-KL1HT	£160	

