

## BC2001 (MkII) Block Calibrator

The BC2001 (MkII) Block 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 BC2001's aluminium block is fan assisted it heats, cools and stabilises in minutes - much quicker than many larger block calibrators. A stability indication light, shows when it has stabilised at temperature after an adjustable duration. The BC2001's compact size, low cost, and yet high accuracy make it ideal for use as part of your quality and traceability regime in the factory or the laboratory.



**£920**

The BC2001 is constructed with a single fixed aluminium block with a number of wells (holes/pockets). The default, Block 1, has wells with a variety of common probe sizes and is typically available from stock or on a short lead-time. Units with Other Build Options are built when ordered and are generally 2-4 weeks lead-time. Special Build Options are longer, contact us for more details. Since the block is fixed, the block cannot be changed by the user or modified for another block. If more versatility is required, see our UBC2001 or UBC2010 which take interchangeable sleeves in a wider range of popular probe sizes.

### General Specifications (all versions)

**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:** Come with a foam lined black plastic case. Size: 300 x 130 x 350mm (WxHxD)

**Warranty:** 2 years

### Ordering Codes

Block Number:	Voltage:	Temperature Scale:
1	240	C
2	110	F
3		

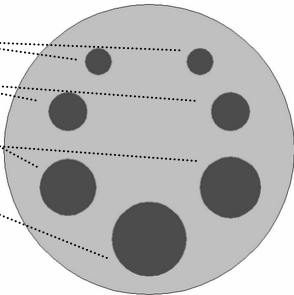
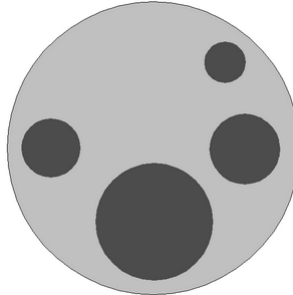
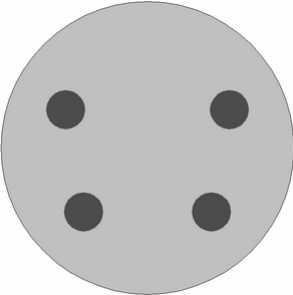
Example: BC2001/1/240/C is Block 1, 240V, °C.

† Temperature Scale (°C/°F) cannot be changed by the user.

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.

## Block Specifications

		Block 1 (MkII) Build (default)		Other Build Options (Built when ordered)	
		100mm Deep Wells	80mm Deep Wells	Block 2	Block 3
<b>Accuracy:-</b> (With built-in display.)	35 to 180 °C	± 0.25°C (±0.45°F)	± 0.4°C (±0.72°F)	± 0.6°C (±1.08°F)	± 0.20°C (±0.36°F)
	181 to 280 °C	± 0.45°C (±0.81°F)	± 1.0°C (±1.80°F)	± 0.9°C (±1.62°F)	± 0.40°C (±0.72°F)
	281 to 350 °C	± 0.65°C (±1.17°F)	± 1.3°C (±2.34°F)	± 1.4°C (±2.52°F)	± 0.60°C (±1.08°F)
<b>Stability:-</b>	35 to 180 °C	± 0.10°C (±0.18°F)		± 0.2°C (±0.36°F)	± 0.20°C (±0.36°F)
	181 to 280 °C	± 0.15°C (±0.27°F)		± 0.3°C (±0.54°F)	± 0.25°C (±0.54°F)
	281 to 350 °C	± 0.25°C (±0.45°F)		± 0.4°C (±0.72°F)	± 0.35°C (±0.72°F)
<b>Radial (Well-to-well) Uniformity:</b>	35 to 180 °C	0.3°C (/ ± 0.15°C)	0.3°C (/ ± 0.15°C)	1.4°C (/ ± 0.7°C)	0.3°C (/ ± 0.15°C)
	181 to 280 °C	0.5°C (/ ± 0.25°C)	0.4°C (/ ± 0.20°C)	2.0°C (/ ± 1.0°C)	0.5°C (/ ± 0.25°C)
	281 to 350 °C	0.8°C (/ ± 0.40°C)	0.5°C (/ ± 0.25°C)	2.8°C (/ ± 1.4°C)	0.8°C (/ ± 0.40°C)
<b>Partial Immersion Uniformity:</b> (At 20mm back.)	35 to 180 °C	0.6°C (/ ± 0.3°C)	0.6°C (/ ± 0.3°C)	0.6°C (/ ± 0.3°C)	-
	181 to 280 °C	1.4°C (/ ± 0.7°C)	1.2°C (/ ± 0.6°C)	1.4°C (/ ± 0.7°C)	-
	281 to 350 °C	1.8°C (/ ± 0.9°C)	1.4°C (/ ± 0.7°C)	2.4°C (/ ± 1.2°C)	-
<b>Block Details:</b>	Well Depth: 100mm (4"), except 2.2mm wells that are 80mm (3.15").		Well Depth: 100mm (4"). 3.2mm, 4.7mm, 6.3mm, 9.5mm	Well Depth: 100mm (4"). 4x 3.2mm	
	<p>2x 2.2mm 2x 3.2mm 1x 4.7mm 1x 5.1mm 1x 6.2mm</p> 				
<b>For Probe Diameters:</b>	Metric: 1.5mm, 2mm, 3mm, 4.5mm, 5mm, 6mm Imperial: 3/16"		Metric: 3mm, 4.5mm, 6mm, 9mm	Metric: 3mm	
<b>Price (ex VAT) :</b>	<b>£920</b>		<b>£980</b>	<b>£980</b>	

*Note: Blocks are build options and are not interchangeable or rebuildable. Customised blocks may also be available on request at additional cost.*

This datasheet applies to the current model only, for information on units purchased previously please contact us. Mismatching of the operating voltage may cause damage to the unit that is not covered by the warranty. 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.

**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](http://www.tmseurope.co.uk/soa) ).



**Block Calibrator range from TMS Europe**

<b>BC 2001</b>	<b>UBC 2001</b>	<b>UBC 2010</b>	<b>UBC 2020</b>	<b>UBC 1001</b>
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



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***

