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£1,680

Standard Kit

**Calibration Block Configuration** 

The UBC1021's block has two 13.1mm

# **UBC1021 Miniature Sub Zero Block Calibrator**

The UBC1021 Block Calibrator is designed to check the accuracy of temperature sensors and thermometers. Its compact size means true portability, even to the tight corners of your plant.

Simply insert your temperature probe into one of the interchangeable sleeves and put it in a pocket of the metal block. Set the temperature on the digital controller, then wait a short time the block to stabilise at the set temperature. A stability indication light, shows when it has stabilised at temperature after an adjustable duration.

Probe readings can either be compared to the measured temperature on the built-in display or, for the highest accuracy, compared against a calibrated reference thermometer standard inserted in the block.

The UBC1021's extremely compact size, versatility, competitive cost, and accuracy, make it ideal for use as part of your quality and traceability regime in the factory or the laboratory.

# **Specification**

Based on 20°C (68°F) ambient temperature.

	-10 to +110°C (14°F to 230°F *) ols to 30°C below ambient, limited to -20°C ats to 90°C above ambient, limited to 110°C)	pockets which take interchangeable sleeves. In the Standard Kit are the sleeves: 3.2mm, 4.7mm, 6.5mm, 9.5mm.		
Accuracy: Stability: Hole-to-hole L	±0.3°C ±0.15°C Jniformity: 0.3°C ( / ±0.15°C)	Block Size <u>Kit Sleeve Sizes</u>		
-	Ambient to 70°C stabilised Ambient to 100°C stabilised -10°C to 110°C stabilised Ambient to 0°C stabilised Ambient to -10°C stabilised 110°C to -10°C stabilised8 minutes 40 minutes 8 minutes 20 minutes <30 minutes	13.1mm 13.1mm 4.7mm 3.2mm		
Well depths:	100mm (4") (92mm in block)			
Body Size: (WxHxD)	Body: 120mm x 50mm x 160mm, Extremities: 140 x 60 x 190mm (without lead) ( Body: 5" x 2" x 6.5" approx., Extremities: 5.5" x 2.4" x 8" approx. )			
Weight:	1.45kg (3.2lbs), with 2 sleeves			
Operating envi	ironment: 5 to 35°C, 25-85%RH (non-cor	ndensing), indoors. Warranty: 2 year		
Power:	230Vac $\pm 15\%$ / 115Vac $\pm 15\%$ , 40W, 50/60Hz (automatic), via an IEC C13 inlet, supplied with detachable UK power lead. (Other leads are available, there may be an additional charge)			
Certification:	UKAS (ISO17025) calibration and 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)			
Specification based on two 3mm probes in 3.2mm sleeves at full immersion. * Temperature Scale (°C/°F) cannot be changed by the user.				

Specification based on two 3mm probes in 3.2mm sleeves at full immersion. \* 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.

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

The calibration of the block calibrator in both wells at 3 temperatures: -10, 60 and 110°C at full and partial immersion. 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 <a href="https://www.tmseurope.co.uk/soa">www.tmseurope.co.uk/soa</a>).

#### Block Calibrator range from TMS Europe

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н	<b>BC 2001</b> 350 °C	<b>UBC 2001</b> 350 °C	UBC 2010 500 °C	<b>UBC 2020</b> 500 °C	
0	Multi-Well (Choice of fixed block)	1x Interchangeable Small Sleeve	1x Interchangeable Large Sleeve	2x Interchangeable Small Sleeves	
-	'Block 1' Build	13.1mm	19.5mm	2x 13.1mm	
•	2.2, 3.2, 4.7, 5.1, 6.2mm	3.2mm	6.3mm 3.2mm	3.2mm 6.2mm	
C O L				13.1mm 13.1mm 13.1mm 2x Interchangeable	
D	UBC 1021 UBC 1001		UBC 1051	Small Sleeves	
	-10 to +110 °C	-15 to +125 °C	-30 to +125 °C	From ambient of 20°C	
<b>NIMADE IN</b> TMS Europe I to was established in 1979 and has designed					

**TADE IN** 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

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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 Small 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 £140 and typical lead time being 4-8 weeks. Unanodised 'blank' sleeves can also be supplied to customers equipped to peform their own precision machining and anodising.

## **Small Sleeves** For UBC2001, UBC1001, UBC1021, UBC1051, UBC2020.

TMS Stock Code	Short Code	<b>Intended Prob</b> Metric	<b>e Diameter</b> Imperial	<b>Sleeve Diameter</b> ID (Inside)	Sleeve Length Well	Price Each
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	S3 <u>P</u> HT	-	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	S5 <u>P</u> HT	-	3/16"	5.1mm	100mm	£50
BLKUNS-S5HT	S5HT	5mm	-	5.2mm	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	£40
BLKUNS-S9HT	S9HT	9mm	-	9.5mm	100mm	£40
BLKUNS-S10HT	S10HT	10mm	3/8"	10.2mm	100mm	£60

\* S2HT has a shorter length for its specified main diameter. Cross-section:

(Outside Diameter of Small Sleeves is 13mm, Total Sleeve Length is 106mm.) (Large Sleeves are also available for use in the UBC2010. Small Sleeves can used with the UBC2010 in conjunction with an L13HT sleeve as an adaptor.)

Small Sleeve Packs	Containing	TMS Stock Code	Price Total
Pack of 4 Small Sleeves	S3HT, S4HT, S6HT, S9HT	BLKUNS-KS1HT £130 (Included in the Standard Kit of some models	
Pack of 6 Small Sleeves	<b>2x S3HT</b> , 1x S4HT, 1x S6HT, 1x <b>S8HT</b> , 1x S9HT	BLKUNS-KS2HT £180 (+£50 upgrade from the Standard Kit of some models.)	

