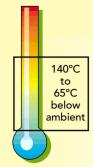


Europa-6^{PLUS}

ISOCAL • 6 Range



The EUROPA^{PLUS} offers an exceptionally wide operating range in an easy to use portable package. As part of the ISOCAL-6 series the EUROPA^{PLUS} can be used as a Dry Block, a Liquid Bath, a Blackbody Source for infrared thermometers, a Surface Sensor Calibrator and for performance to a few mK (0.001°C) ITS-90 Fixed Points. The EUROPA^{PLUS} is available in two models, the BASIC (B) and the SITE (S). The B model includes a sophisticated temperature controller with a dual display for Set Temperature and Dry Block Temperature, refer to page 23 for further details. The S model additionally includes an in-built digital indicator to which an external temperature sensor can be connected.

For Dry Block use the unit under test may be compared to the controller value, Isotech recommend the use of an external probe connected to the indicator of the Site model (see page 23) which compensates for the temperature gradient and loading errors. This gives greater accuracy and traceability meeting the requirements of ISO 9000 and other quality standards.

For liquid bath, surface sensor and blackbody use an external standard probe should always be used, either with the S models indicator or an external indicator, e.g. an Isotech TTI model. For laboratory use the EUROPA^{PLUS} can be used with a laboratory performance temperature indicator such as the Isotech TTI 5 and TTI 6 for outstanding accuracies.



Included as standard: Windows Software, Computer Interface and a Ramp to Set Point Feature. Increased resolution of ±0.01 available throughout the range via the PC interface and from -19.99 to +99.99 locally on the auto-ranging front display. The controller features multi-point block to display correction giving good absolute accuracy.

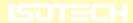
New in the S model is universal sensor input allowing Platinum Resistance Thermometers, Thermocouples (Types K, N, R, S, L, B, PL2, T, J and E) along with Linear Process Inputs including 4-20mA current transmitters to be displayed on the inbuilt indicator. The indicator can be programmed with up to five calibration points to provide high accuracy digital probe matching. The indicator and controller are both addressable over the communications link.

Key Features

- Extreme Low Temperature Operation
 -45°C in an ambient of 20°C Use for Triple Point of Mercury, 0°C, 121°C (250°F), 135°C.
- Realise ITS-90 Fixed Points the EUROPA^{PLUS} can be used with Slim Mercury, Gallium and Triple Point of Water Fixed Point Cells.
- Calibrate as a Dry or Liquid Bath, thermocouples, platinum resistance thermometers, thermistors, liquid in glass, thermostats, semiconductor types.
- S Model Includes Universal Input Temperature Indicator allowing for up to five "correction" points to be programmed.
- Windows Software and PC Interface as Standard.
- Free Evaluation Report ask for full data or visit www.isotech.co.uk/industrial







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Options

1.	Metal Block Insert	951-02-15 951-02-15a	Insert without pockets for			
		951-02-15c	local machining Special Insert Contact Isotech with your requirements			
	Stirred Liquid Bath Water/Ice Bath	951-06-01	Includes a container, magnetic stirrer and probe guide			
	Thermometer Support Kit	951-06-03	Allows three thermometers to be suspended in the bath, including liquid in			
	Oil	951-06-06	glass types 0.1L 20°C to 140°C			
4.	Blackbody Target	951-06-04	Use with Standard Probe (935-14-82)			
5.	Surface Sensor Kit	951-06-02	Includes an Insert and an angled PRT.			
6.	Fixed Point Cells	17724 Slim D8 17401 Slim	Mercury Slim Cell Water Slim Cell Gallium Slim Cell			
Standard Probe		935-14-82	Platinum Resistance Thermometer			
UKAS Calibration		UKAS Calibr	ation available to Order			
Ca	rrying Case	931-22-27	Sturdy case accommodates the unit with room for accessories			



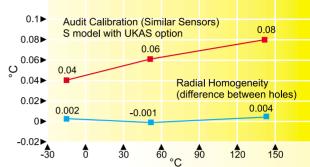
To see the ISOCAL-6 in use ask for details of our 27 minute video

Calibration and Uncertainty

A certificate, traceable to National Standards, is included as standard. Recommended is an optional UKAS five-point calibration.

The accuracy will depend very much on the mode of use and the types of sensor to be used. Please contact Isotech for tutorials and uncertainty calculations and comprehensive evaluation reports. The Europa^{PLUS} meets the Calibration Capacity requirements of EA IO/13, "EA Guidelines on the Calibration of Temperature Block Calibrators".

EUROPAPLUS Performance



0.02▶					(an	(difference be			0.004	
0▶	0.002			-0.001		_		0.00	i e	
-0.02▶										
-0.02	0		30) (\$0 °C	90	12	20	150	
For Evaluat UKAS	ion Report etc, pleas	s, Unce e conta	ocertainty Budgets and Calculations with regard to EA10-13 ntact Isotech - also http://www.isotech.co.uk/refer.html							
M	o. I	EUROPAPLUS								
Tem		65°C below ambient to +140°C (absolute minimum -55°C)								
Absolute stability over 30 minutes			Dry Block Bath Stirred Liquid Bath Ice/Water Bath Blackbody Source Surface Sensor Calibrator ITS-90 Fixed Point Apparatus						±0.03°C ±0.025 ±0.001 ±0.3°C ±0.5°C ±0.000	°C °C
Computer Interface			Included with Windows Software (page 72)							
Cools from			140°C to 0°C in 15 minutes							
Не	m -	-30°C to 140°C in 15 minutes								
Best Performance			See Graph							
Calibration volume			35mm diameter by 160mm deep							
Standard Insert			6 pockets, 9.5mm, 8.0mm, 6.4mm, 6.4mm, 4.5mm, 4.5mm, all 157mm deep							
Uniformity			±0.018°C							
Display Resolution			0.01 -19.99 to 99.99 0.1 -55.0 to -20.0 and 100.0 to 140.0 PC can display 0.01 across whole range with the software included							
Indica	tor uni	ts	°C, °F, K							
	Pow	2	100 to 120V (50 / 60 Hz) or 200 to 240V (50 / 60 Hz) 300 Watts							
Overall dimensions			Heiq Wid Dep	lth	322mm 176mm 262mm					

Weight 14kg

How to Order EUROPA-6^{PLUS}

Please specify model type required
Please specify voltage required
Please specify options required