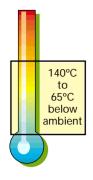
Europa-6^{PLUS}

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 27 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, the use of an external probe connected to the indicator of the Site model which compensates for the temperature gradient and loading errors, is recommended. 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. For laboratory use the EUROPA^{PLUS} can be used with a laboratory performance temperature indicator.

Includes 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.



The S model has 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.

New! The Site model can now be used with the supplied Cal Notepad software to test thermostats.

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 EUROPAPLUS 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



Options

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1. Metal Block Insert	951-02-15	Standard Insert
		Included
	951-02-15A	Blank Insert
		Insert without pockets for
		local machining
•	951-02-15C	Special Insert
		Contact AOIP with your
		requirements

Alternative Metal Block Inserts							
	951-06-07	Standard Insert type B 13mm , 10mm, 8mm, 5mm and 3.5mm diameter holes, all 157mm deep					
	951-06-08	Special Insert type C 8mm, 6 x 6.5mm diameter holes, all 157 deep					

2. 3.	Stirred Liquid Bath Water/Ice Bath	951-06-01	Includes a container, magnetic stirrer and
	Thermometer Support Kit	951-06-03	probe guide 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	D8	Mercury Slim Cell Water Slim Cell Gallium Slim Cell
Sta	andard Probe	935-14-82	Platinum Resistance Thermometer
UKAS Calibration L		UKAS Calibr	ration available to Order
Ca	rrying Case	931-22-64	Sturdy case accommodates the unit with room for accessories

Calibration and Uncertainty

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

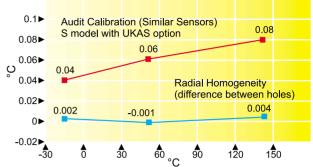
The accuracy will depend very much on the mode of use and the types of sensor to be used. Please contact AOIP for tutorials and uncertainty calculations and comprehensive evaluation reports. The Europa^{PLUS} meets the Calibration Capacity requirements of EA IO/13, "EA Guidelines on the Calibration of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

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EUROPAPLUS Performance



For Evaluation Reports, Ur UKAS etc, please cor	certainty E ntact Isoteo	Budge ch - a	ets and Calculations with regard lso http://www.isotech.co.uk/re	d to EA10-13 fer.html	
Model No.	EUROPAPLUS				
Temperature Range	65°C below ambient to +140°C (absolute minimum -55°C)				
Absolute stability over 30 minutes	Stirred Ice/Wa Blackk Surfac	Dry Block Bath ±0.03°C Stirred Liquid Bath ±0.025°C ce/Water Bath ±0.001°C Blackbody Source ±0.3°C Surface Sensor Calibrator ±0.5°C TS-90 Fixed Point Apparatus ±0.0005°C			
Computer Interface	Included with Windows Software (page 74)				
Cools from	140°C to 0°C in 15 minutes				
Heats from	-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				
Indicator units	°C, °F,	K			
Power	100 to 120V (50 / 60 Hz) or 200 to 240V (50 / 60 Hz) 300 Watts				
Overall dimensions	Heigh Width Depth		322mm 176mm 262mm		
Weight	14kg				
How to Order	EURO	PA-	6 ^{PLUS}		

Please specify model type required

Please specify voltage required

Please specify options required