



ISOCAL - 6 Range Europa • Venus • Calisto

- 35 x 160mm Calibration Volume
- The Most Flexible Temperature Calibrator
- S model includes Universal Input Temperature Indicator
- Windows Software and PC Interface

These models will calibrate temperature probes from -45°C to 250°C with unrivalled flexibility. As a traditional Dry Block, several thermometers can be quickly calibrated. Accessories are available to convert to a stirred liquid bath, for surface sensor calibration, to calibrate infrared thermometers and even to use as an ITS-90 Fixed Point System with calibration uncertainties as small as 0.0005°C.

These award winning calibrators are easy to use - see the pictorial guide. For simple tests and checking of probes, these can be compared to the values shown on the advanced digital temperature controller. The SITE model includes an independent temperature indicator which, combined with a reference probe, ensures traceability, best practise, adherence to quality standards and calibration to the smallest of uncertainties. A three point traceable calibration certificate is included as standard with all models.

Isotech is a world leader in temperature calibration, providing many nations with their Primary Standards and operates a full scale UKAS accredited calibration laboratory. UKAS calibration at five points is optional and is provided from our in-house laboratory.

Benefit from our experience and understanding in calibration at all levels, our evaluation reports, our tutorials and uncertainty calculations.

These models meet the calibration capacity requirements of EURAMET/cg-13/v.01, "EA Guidelines on the Calibration of Temperature Block Calibrators, formerly EA10/13.



http://www.isotech.co.uk/industrial/





Specification				
Model	Europa 6 ^{PLUS}	Venus ^{PLUS}	Calisto ^{PLUS}	
Temperature Range	-45°C to 140°C (1)	-35°C to 140°C (2)	30°C to 250°C (3)	
Stability		, Blackbody: ±0.3°C, Surfac 6-90 Cells: ±0.0005°C, lce Ba		
Accuracy (4)	0.15°C	0.15°C	0.25°C	
Uniformity - Between Wells Dry Block Mode (F	Radial) <0.008°C	<0.008°C	<0.02°C at 250°C	
Uniformity - Radial Liquid Bath Mode	<0.02°C	<0.02°C	<0.011°C at 250°C	
Uniformity - Lower 40mm (Axial) Dry Block Mode	<0.040°C	<0.040°C	<0.25°C	
Uniformity - Lower 40mm (Axial) As Liquid Bath	<0.026°C	<0.026°C	<0.02°C at 250°C	
Heating Time	-30°C to 140°C: 15 Mins	-30°C to 140°C: 15 Mins	25°C to 250°C: 15 Mins	
Cooling Time	140°C to 0°C: 15 Mins	140°C to 0°C: 15 Mins	250°C to 30°C: 25 Mins	
Insert Diameter		35mm		
Immersion Depth		160mm		
Insert Types	Choice of Three - See Accessories			
PC Interface	Included -	Supplied with PC Cable and	d Software	
Power	300 Watts	150 Watts	300 Watts	
Voltage		115Vac or 230 Vac 50/60Hz		
Dimensions		302 x 176 x 262 mm		
Weight	14kg	10.2kg	8kg	
(1) In ambient of 20°C: Minimum Temperature is 65°C Below Ambient, Absolute Minimum -55°C (2) In ambient of 20°C: Minimum Temperature is 55°C Below Ambient, Absolute Minimum -45°C (3) In ambient of 20°C (4) Dry Block Mode only: Comparing 4.5mm Well to Controller Display Value.				

A three point traceable calibration certificate is included. UKAS calibration options available, contact Isotech for advice and options.

Features (Basic & Site)	Europa 6 ^{PLUS}	Venus ^{PLUS}	CalistoPLUS
Dry Block	✓	\checkmark	\checkmark
Stirred Liquid Bath Option	✓	✓	✓
Stirred Ice Bath Operation	✓	✓	—
Surface Sensor Option	✓	✓	✓
Infrared Calibration Option	\checkmark	✓	✓
ITS-90 Fixed Point Cells	Mercury, Water, Gallium	Water, Gallium	Gallium
Additional 8mm Pre-heat Pocket	✓	✓	✓
Configurable Units: °C, °F and K	\checkmark	\checkmark	\checkmark
Supply Voltage Power Correction with Digital Filtering	Provides High Stability protecting against noise and supply voltage variation		

Additional Features (Site)

Independant Temperature indicator	✓	✓	✓
Universal Input Types PT100	✓	✓	\checkmark
Thermocouples Types K,N,R,S,L,PL2,T,J,E	\checkmark	\checkmark	\checkmark
Linear Process Inputs Including 4-20 mA	\checkmark	\checkmark	\checkmark
Stand Alone Thermostat Testing	\checkmark	\checkmark	\checkmark
Thermostat Testing With PC	\checkmark	\checkmark	\checkmark
Five Point Digital Probe Matching	\checkmark	\checkmark	\checkmark
Configurable Units: °C, °F and K	✓	\checkmark	\checkmark



Isocal-6 Ultimate Flexibility - Europa, Venus & Calisto

Calibrate all sensor types - Thermocouples, PRT's, Thermistors, Thermostats, Infrared, Surface Sensors...



Alternative Inserts			
951-06-07	Standard Insert type B 13mm, 10mm, 8mm, 5mm and 3.5mm dia. holes, all 157mm deep		
951-06-08	Special Insert type C 8mm, 6 x 6.5mm dia. holes, all 157mm deep		
951-02-15A	Blank Insert without		

1) Dry Block Mode with Inserts

All Inserts have a 4mm tapped hole to

951-02-15 An Insert is included: (2 x 4.5mm, 2 x 6.4mm, 1 x 8mm & 1 x

9mm) x 157mm Deep.

suit supplied extractor tool.

5A Blank Insert without pockets for local machining. Includes M4 tapped hole for supplied extractor tool.

951-02-15C Custom insert. Isotech can provide custom drilled pockets, minimum of 3mm separation between holes. Contact with your requirements.

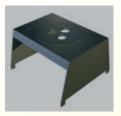


Stirred Liquid Mode with Liquid Container Kit

Allows liquid bath use, includes container, magnetic stirrer, probe guide and sealing cap. **951-06-01**

3 Stirred Ice Bath Mode with Liquid Container Kit

Uses same liquid kit to provide 0°C reference as a stirred ice bath (Not Calisto)



Additional Accessories for use with the above kit

Thermometer Support Kit 951-06-03 Allows three t

Allows three thermometers to be suspended in the bath, including

liquid in glass types

Oils

 Oils

 520-05-01
 C10 Oil-35°C - 140°C 0.1L

 951-06-06
 C20 Oil 20°C - 200°C 0.1L

 953-04-01
 VH Oil 150°C - 250°C 0.1L



Infrared Calibration Mode with Blackbody Target

951-06-04

Use optional Probe 935-14-82 placed in the auxiliary block pocket for use as a reference.

