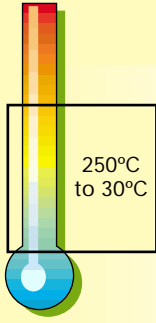


Calisto^{PLUS} 2250

ISOCAL-6[®] Range



The Calisto^{PLUS}2250 range offers outstanding performance in an easy to use portable package. As part of the ISOCAL-6 series the Calisto^{PLUS}2250 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 Calisto^{PLUS}2250 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 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 or Blackbody use an external thermometer should always be used - either with the S model or the B model and a separate stand-alone indicator. For laboratory use the Calisto^{PLUS}2250 can be used with a laboratory performance temperature indicator such as one of the Isotech True Temperature Indicators (TTI).

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.

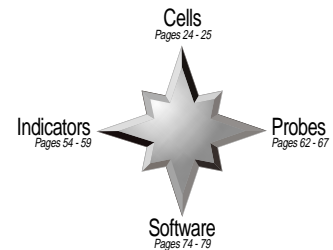


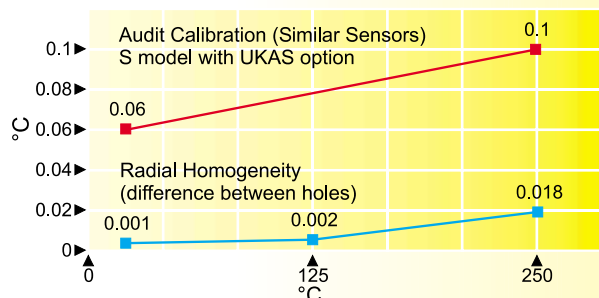
The S model has universal sensor input allowing Platinum Resistance Thermometers, Thermocouples (Types K, N, R, S, L, B, PL2, T, J and E) along with Linear Process Inputs including 4-20mA current transmitters to be displayed on the inbuilt indicator. The indicator can be programmed with up to five calibration 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

- **Calibrate Whole Calibration Loop** - using a heat source rather than an electrical simulator a test instrument and probe can be calibrated as a system.
- **Calibrate as a Dry or Liquid Bath**, thermocouples, platinum resistance thermometers, thermistors, liquid in glass, thermostats, semiconductor types.
- **Covers key calibration points** 37°C, 121°C (250°F), 135°C.
- **Simple To Use** - Outstanding Value for Money!
- **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



Calisto^{PLUS} 2250ISOCAL-6[®] RangeCALISTO^{PLUS} 2250 Performance

For Evaluation Reports, Uncertainty Budgets and Calculations with regard to EA10-13 UKAS etc, please contact Isotech - also <http://www.isotech.co.uk/refer.html>

Model No. CALISTO^{PLUS} 2250

Temperature Range +30°C to +250°C

Absolute stability over 30 minutes	Stability	Value
Dry Block Bath	±0.03°C	
Stirred Liquid Bath	±0.025°C	
Blackbody Source	±0.3°C	
Surface Sensor Calibrator	±0.5°C	
ITS-90 Fixed Point Apparatus	±0.0005°C	

Computer Interface Included with Windows Software (page 74)

Cools from 250°C to Ambient in 25 minutes

Heats from Ambient to 250°C in 25 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 Up to 99.99
0.1 100.0 to 250.0°C
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 Height 302mm
Width 176mm
Depth 262mm


Weight 8kg

How to Order Calisto^{PLUS} 2250
Please specify model type required
Please specify voltage required
Please specify options required

Options

	1. Metal Block Insert	951-02-15	Standard Insert <i>Included</i>
		951-02-15A	Blank Insert <i>Insert without pockets for local machining</i>
		951-02-15C	Special Insert <i>Contact Isotech with your requirements</i>

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. Stirred Liquid Bath	951-06-01	Includes a container, magnetic stirrer and probe guide
Thermometer Support Kit	951-06-03	<i>Allows three thermometers to be suspended in the bath, including liquid in glass types</i>
C20 Oil	951-06-06	0.1L (Ambient to +200°C)
Oil	953-04-01	0.1L (+150°C to +250°C)

4. Blackbody Target	951-06-04	Use with Standard Probe (935-14-82)
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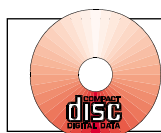
5. Surface Sensor Kit	951-06-02	Includes an Insert and an angled PRT.
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6. Fixed Point Cells	17401 Slim 17156M	Gallium Slim Cell Indium Slim Cell
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UKAS Calibration UKAS Calibration available to Order

Standard Probe	935-14-82	Platinum Resistance Thermometer
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Carrying Case	931-22-64	Sturdy case accommodates the unit with room for accessories
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To see the ISOCAL-6 in use ask for our 27 minute video supplied on CD-Rom

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 Calisto^{PLUS} 2250 meets the Calibration Capacity requirements of EA 10/13, "EA Guidelines on the Calibration of Temperature Block Calibrators".