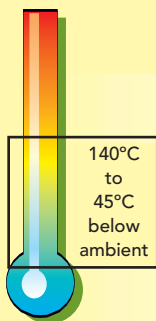


936 Hyperion PLUS

ISOCAL-6® Range



To calibrate temperature sensors to 250°C look no further than Isotech's portable stirred liquid baths. The Hyperion calibrates from 45°C below ambient to 140°C and the Drago from 30 to 250°C see page 12. The large calibration volume is more than twice the size of alternative products. The useable area is a full 65mm diameter with a depth of 160mm, the overall well depth of 190mm allows room for space at the top and the bottom magnetic stirrer.

Stirred liquid baths are suitable for temperature sensors of all types, shapes and sizes. Accuracies are much greater than those from Dry Blocks alone and with suitable reference thermometers performance of up to 0.005°C is achievable.

The Hyperion is available in two models. If the liquid is directly in the block then the controller only model, or Basic (B) model, can be selected. This model is also suitable where an external indicator and standard will be used. Alternatively the site model (S) includes a built in temperature indicator for high accuracy or for best accuracy an external indicator can be used, an ideal combination is a TTI model and a 935-14-16 Standard Probe, see Indicators, Probes and Accessories section. The S model can be provided with UKAS certification.

The Hyperion can also be used with the supplied Cal NotePad software to automatically calibrate thermostats.

When using a separate indicator and probe then different accessories can be added for Dry Block, Blackbody, Surface Sensor, Liquid Containers and even ITS-90 fixed point operation.



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.

Features

- **65mm Diameter Calibration Volume.**
- **Portable Liquid Bath** for high accuracy calibration of awkward shaped sensors.
- **Convertible for Dry Block Operation** and more.
- **Calibrate all Sensor types.**
- **Windows Software and PC Interface as standard.**



936 Hyperion^{PLUS}

ISOCAL-6[®] Range

Options

Stirred Liquid Bath Water / Ice Bath	936-06-02	Includes a container, magnetic stirrer and probe basket
Metal Block Insert	936-06-01a	Standard Insert 8 x 8mm + 2 x 4.5mm diameter holes 157mm deep
	936-06-01b	Blank Insert
	936-06-01c	Special Insert. <i>Contact Isotech with your requirements</i>
Blackbody Target	936-06-03	Use with Standard Probe (935-14-61DB)
Surface Sensor Kit	936-06-04	Includes an Insert and an angled PRT.
Fixed Point Cells	B8	Water Slim Cell
	17401 Slim	Gallium Slim Cell
	936-06-09	Slim Triple point of Water Cell/Gallium Cell Holder Assembly
Standard Probe	935-14-61DB	Platinum Resistance Thermometer
UKAS Calibration	UKAS Calibration available to Order	
Carrying Case	931-22-65	Sturdy case accommodates the unit
Liquid	936-06-07	1 Litre of C10 Oil (-35°C to +140°C)
Support Kit	936-06-08	Fits into the top of the block or liquid container and supports up to eight thermometers into the liquid. Suits probes of 5mm to 8mm in diameter.

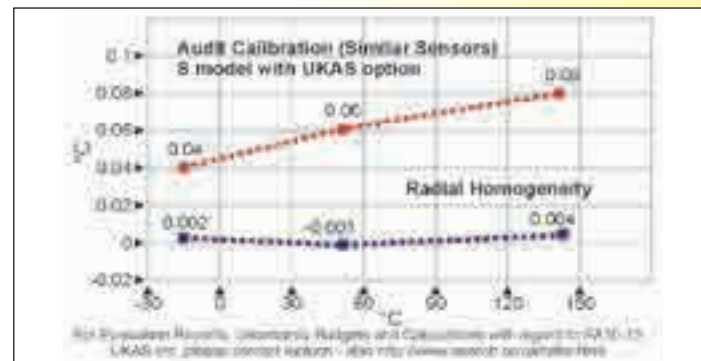
The company is always willing to give technical advice and assistance where appropriate. Equally because of the program of continual development and improvement, we reserve the right to amend or alter characteristics and design without prior notice. This publication is for information only.



To see the ISOCAL-6 in use ask for our 27 minute video supplied on CD-Rom

Note: Instead of putting liquids directly in the block liquid containers can be used to facilitate rapid change of liquids. When using a liquid container, Dry Block Insert, Blackbody Target or the Surface Sensor Kit a separate reference thermometer should be used to compensate for the varying offset between the controller and the accessory temperature. Suitable choices include the SITE model with probe or a stand alone indicator such as an Isotech TTI model.

Hyperion^{PLUS} Performance - Dry Block



Model No. HYPERION^{PLUS}

Temperature Range 45 below ambient to +140°C (absolute minimum -45°C)

Absolute stability over 30 minutes

Stirred Liquid Bath	±0.025°C
Dry Block Bath	±0.03°C
Ice / Water Bath	±0.001°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

Thermal Performance As a liquid comparison bath
Uniformity down to ±0.005°C over the full range

Heating / Cooling as a liquid bath

20°C to 140°C	in 40mins
140°C to 20°C	in 90mins
20°C to -25°C	in 80mins

Uncertainties Refer to Uncertainties Graph

Calibration volume 65mm diameter by 160mm deep

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 108 to 120V (50/60 Hz) or
208 to 240V (50/60 Hz)
200 Watts

Overall dimensions

Height	302mm
Width	176mm
Depth	262mm

Weight 12kg

How to Order **Hyperion^{PLUS}**
Please specify model type required
Please specify voltage required
Please specify options required