



## HYPERION

Stirred liquid bath, dry block,  
Blackbody source & Fixed Point  
system,  $-25^{\circ}\text{C}$  (Tamb of  $20^{\circ}\text{C}$ ) to  
 $140^{\circ}\text{C}$

Hyperion is a calibration liquid bath for temperature thermometers from -25°C (in ambient of 20°C) to 140°C. It has a large calibration volume, 65 mm x 160 mm deep, which makes it ideal to use as a portable liquid bath. The stirred liquid bath is suitable for temperature sensors of all types, sizes and shapes.

## Description

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The liquid bath can provide smaller calibration uncertainties than a dry block and, when used with suitable reference thermometers, accuracies of up to 0.005°C can be achieved. The sensors can be placed directly into the stirred liquid thus avoiding the need for specially drilled blocks. Temperature homogeneity is ensured by constant liquid stirring. It is not necessary to empty the block to move the system from one place to another, a cap ensures the sealing.

In the optional dry block mode, the large 65 mm diameter block allows for the calibration of either larger probes or for calibrating many sensors simultaneously over the range -25°C to +140°C. Fully compatible with the leading I-Cal Easy automatic calibration software you can also benefit from the combination of flexibility and large calibration capacity.

Combined with accessories, it can also be converted into a Blackbody Source for infrared thermometers, a surface sensor calibrator and ITS-90 Fixed Point cell with calibration uncertainties up to 0.0005°C.

Hyperion 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.

The S model additionally includes an in-built temperature digital indicator to which an external temperature sensor can be connected. It ensures traceability, best practise and adherence to quality standards and calibration to the smallest of uncertainties.

### Key features:

- Large calibration volume: 65 x 160 mm diameter
- Portable liquid bath, convertible for dry block operation
- Calibration as a liquid bath or a dry block: thermocouples, platinum resistance thermometers, thermistors, liquid in glass, thermostats, semiconductor types

# Specifications

Temperature range

-25°C (Tamb 20°C) to +140°C

Stability as:

Dry block

Blackbody

Surface sensor

Stirred liquid bath

ITS-90 Fixed Point cells

Ice bath

## Models and accessories

### Instrument:

Hyperion 936 B      Liquid bath, Dry block, & Blackbody source – Basic model

Delivered in standard with:

- Magnetic stirrer, probe basket and lid
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate

Hyperion 936 S      Liquid bath, Dry block, & Blackbody source – On Site model

Delivered in standard with:

- Magnetic stirrer, probe basket and lid
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate
- Built-in digital indicator
- Connector for probe 935-14-61/DB

### Stirred liquid bath:

936-06-02              Stirred liquid container kit

936-06-08              Thermometer support kit (8 thermometers of diameter: 6 to 8 mm)

### Metal block bath:

936-06-01a              Standard insert of 10 holes of diameter: 8x 8 mm / 2x 4.5 mm

Depth: 157 mm

936-06-01b              Blank insert

936-06-01c              Non-standard insert

935-14-61/DB              Semi standard platinum resistance thermometer Pt100

UKAS                      5 Point comparison calibration

### Blackbody source:

936-06-03              Blackbody target

### Surface sensor calibrator:

936-06-04              Surface sensor calibrator kit

## ITS-90 fixed point apparatus:

M 17401M                  Slim Gallium Melt Point cell, insulation assembly

## Other accessories:

936-06-07                  C10 Oil (-35°C to 140°C), 1 L required  
935-14-84                  Replacement surface sensor probe  
936-02-07                  Replacement surface sensor insert  
936-06-09                  Slim TPW cell and Gallium cell holder assembly only  
932-12-74                  Replacement liquid container magnetic followers (Qty 5)  
931-22-65                  Carrying case

## Packing information:

Size                          302 x 176 x 262 mm

Weight without packing   12 kg