



35 to 650°C

# Dry Block Calibrator Jupiter

- 35 x 148mm Calibration Volume
- 35°C to 650°C
- Fast - Wide Operating Range
- PC Interface and Software

The Jupiter<sup>PLUS</sup>650 Dry Block range offers industry-leading performance in an easy to use portable package - ideal for the calibration of thermocouples and platinum resistance thermometers. It has been designed for fast heating and cooling for convenient field use. For flexibility surface sensor and infrared thermometer accessories can be added.

The standard insert can hold up to six thermometers. For larger blocks see the Gemini and Medusa models. The Jupiter<sup>PLUS</sup>650 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 includes a built in digital indicator to which an external standard thermometer can be connected giving greater accuracy eliminating temperature gradient and loading errors. For Surface Sensor and Blackbody use an external thermometer should always be used. For lab accuracy the Jupiter<sup>PLUS</sup>650 can be used with a high-end temperature indicator such as one of the Isotech True Temperature Indicators (TTI).

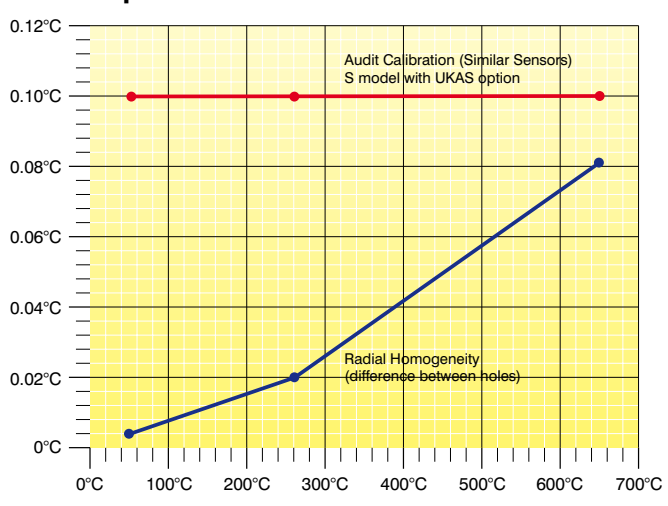


<http://www.isotech.co.uk/industrial/>



<b>Model</b>	<b>Jupiter<sup>PLUS</sup> 650</b>	
Temperature Range	35°C to 650°C	
Absolute stability over 30 minutes	At 50°C	±0.02°C
	At 250°C	±0.02°C
	At 650°C	±0.03°C
Blackbody Source	±0.3°C	
Surface Sensor Calibrator	±0.5°C	
Computer Interface	Included with Software	
Cools from 650°C to 150°C	in 60 minutes	
Heats from 30°C to 650°C	in 20 minutes	
Best Performance	See Graph	
Calibration volume	35mm diameter by 148mm deep	
Standard Insert	6 pockets, 2 x 4.5mm, 2 x 6.4mm, 1 x 8.0mm, 1 x 9.5mm diameter, all 140mm deep	
Display Resolution	0.01	to 99.99
	0.1	100.0 to 650.0
	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) 1000 Watts	
Dimensions	Height 302mm Width 176mm Depth 262mm	
Weight	8.5kg	

### Jupiter<sup>PLUS</sup> 650



### 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 Jupiter<sup>PLUS</sup> 650 meets the Calibration Capacity requirements of EURAMET/cg-13/v.01, "Guidelines on the Calibration of Temperature Block Calibrators".

### Features (Basic & Site)

### Jupiter<sup>PLUS</sup> 650

Calibrate Whole Calibration Loop	✓
Good Temperature Uniformity	✓
Wide Operating Range	✓
Simple to Use	✓
Site Includes Universal Input Temperature Indicator	✓
Windows Software and PC Interface	✓
Free Evaluation Report	✓

# Accessories - Jupiter

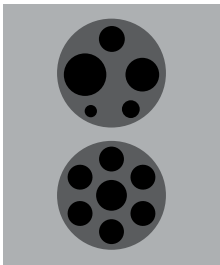


**Metal Block Insert 852-07-11**  
Standard Insert included

**Alternative Inserts**

**852-07-07** Blank Insert *without pockets for local machining*. Includes M4 tapped hole for supplied extractor tool.

**852-07-07C** Custom Insert. Isotech can provide custom drilled pockets, minimum of 3mm separation between holes. *Contact with your requirements.*



**852-09-03** Standard Insert type B 13mm, 10mm, 8mm, 5mm and 3.5mm diameter holes, all 140mm deep

**852-09-04** Standard Insert type C 8mm, 6 x 6.5mm diameter holes, all 140mm deep



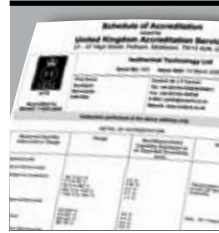
**Blackbody Kit**

**852-09-05** Includes a Blackbody target and Sensor.



**Surface Sensor Kit**

**852-07-15** Includes angled thermocouple.



**UKAS Calibration**

UKAS Calibration available to order, legally traceable in more than 70 countries.



**Air Cooling**

**853-04-02**

For use with an air supply this accessory allows air to be blown into the block for rapid cooling.



**Standard Probe**

**935-14-72/DB**

Platinum Resistance Thermometer for use up to 650°C.



**Carrying Case**

**931-22-64**

Purpose designed carrying case. Ideal for storing the calibrator and accessories



**Transit Case**

**931-22-105**

Resin case with inline wheels and pull out handle. Ideal for transporting the calibrator

**How To Order**

Specify Model, Basic or Site, Supply Voltage, Accessories and if UKAS Calibration is required.