

Dry Block Calibrator **Jupiter**

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

The Jupiter PLUS 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 PLUS 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 PLUS 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/





Model Jupiter^{PLUS} 650

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 $\pm 0.3^{\circ}$ C Surface Sensor Calibrator $\pm 0.5^{\circ}$ 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

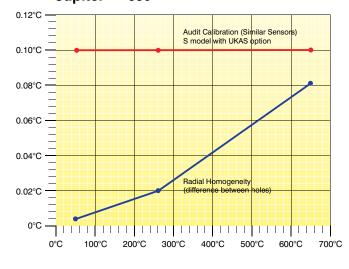
Power 100 to 120V (50 / 60 Hz) or 200 to 240V (50 / 60 Hz) 1000 Watts

Dimensions Height 302mm

Width 176mm Depth 262mm

Weight 8.5kg

JupiterPLUS 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^{PLUS} 650 meets the Calibration Capacity requirements of EURAMET/cg-13/v.01, "Guidelines on the Calibration of Temperature Block Calibrators".

Features (Basic & Site)

JupiterPLUS 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

Sturdy case accommodates the unit with room for accessories



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