

JUPITER 650

Large volume portable dry block calibrator, 35°C to 650°C

Jupiter 650 is a large volume portable dry block calibrator for temperature thermometers from 35°C to 650°C. It offers offers industry-leading performance in an easy to use portable package, ideal for the calibration of high temperature thermocouples. For enhanced flexibility, surface sensor and infrared thermometer accessories can be added.

Description

Jupiter 650 is a large volume portable dry block calibrator for temperature thermometers from 35°C to 650°C. It is ideal for the calibration of thermocouples and platinum resistance thermometers. It has been designed for fast heating and cooling for convenient field use. For enhanced flexibility, surface sensor and infrared thermometer accessories can be added.

The standard insert can hold up to six thermometers. For larger blocks, see Gemini and Medusa models.

Jupiter 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 additionally includes an in-built temperature digital indicator to which an external temperature sensor 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.

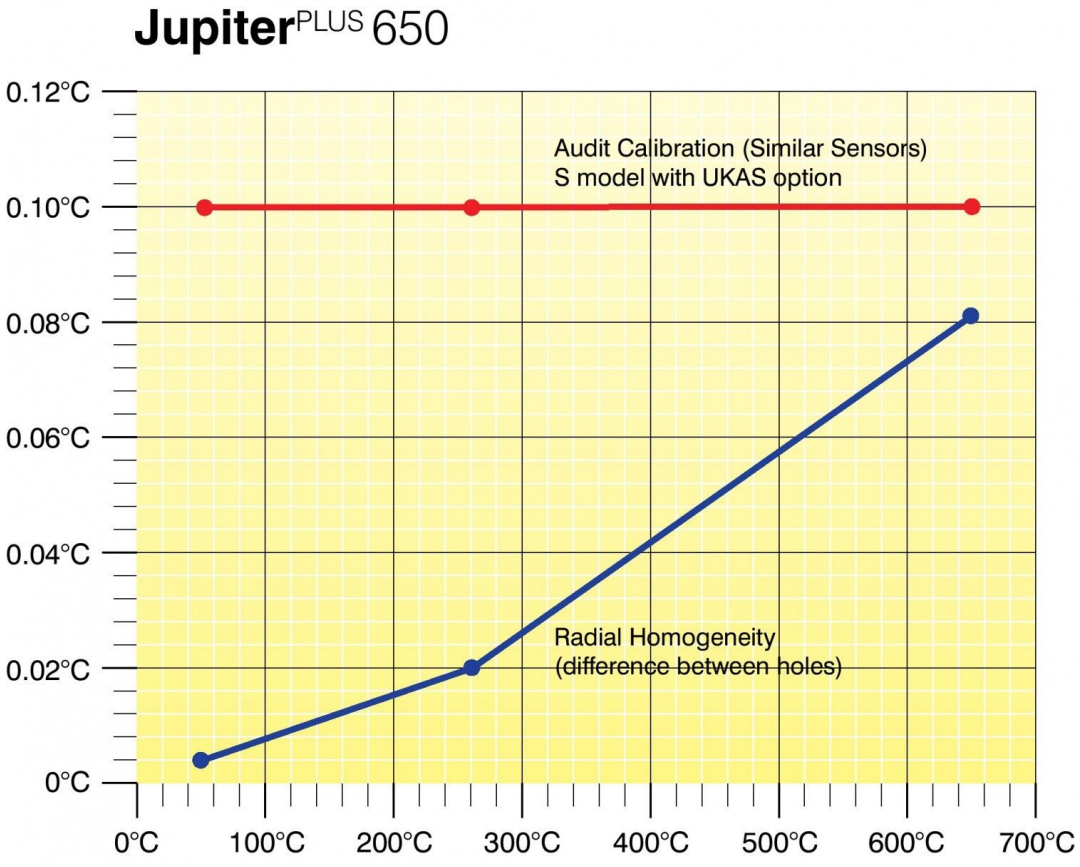
For laboratory accuracy, Jupiter 650 can be used with high-end temperature indicator.

Key features:

- Large calibration volume: 35 x 148 mm depth
- Wide operating range: 35°C to 650°C
- Fast heating and cooling
- Good temperature uniformity
- Convertible for blackbody source and surface sensor calibration

Specifications

Temperature range	35°C to +650°C
Absolute stability over 30 min	±0.02°C at 50°C ±0.02°C at 250°C ±0.03°C at 650°C
Blackbody source	±0.3°C
Surface sensor calibration	±0.5°C
Cooling time	650°C to 150°C: 60 min
Heating time	30°C to 650°C: 20 min
Performances	Refer to uncertainties graph below
Calibration volume	35 x 148 mm depth
Standard insert	6 holes: 2x 4.5 mm / 2x 6.4 mm / 1x 8 mm / 1x 9.5 mm Depth: 140 mm



General specifications

Size	302 x 176 x 262 mm

Weight	8.5 kg
Display	

Models and accessories

Instrument:

JUPITER 650 B Portable dry block calibrator – Basic model

Delivered in standard with:

- Standard insert with holes of diameter: 2x 4.5 mm / 2x 6.4 mm / 1x 8 mm / 1x 9.5 mm, depth: 157 mm
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate

JUPITER 650 S Portable dry block calibrator – On Site model

Delivered in standard with:

- Standard insert with holes of diameter: 2x 4.5 mm / 2x 6.4 mm / 1x 8 mm / 1x 9.5 mm, depth: 157 mm
- Cal Notepad software
- Serial communication cable
- User manual
- Traceable certificate
- Built-in digital indicator
- Connector for probe 935-14-72/DB

Metal block bath:

852-07-11	Additional standard insert of diameter: 2x 4.5 mm / 2x 6.4 mm / 1x 8 mm / 1x 9.5 mm
	Depth: 157 mm
852-07-07	Blank insert
852-07-07c	Non-standard insert
852-09-03	Alternative insert type B
	Hole diameter: 1x 13 mm / 1x 10 mm / 1x 8 mm / 1x 5 mm / 1x 3.5 mm
	Depth: 140 mm
852-09-04	Alternative insert type C
	Hole diameter: 1 x 8 mm, 6 x 6.5 mm holes x 140 mm deep
	Depth: 140 mm
935-14-72/DB	Semi standard platinum resistance thermometer Pt100
UKAS	5 point comparison calibration

Blackbody source:

852-09-05	Blackbody target kit
	Includes a Blackbody target and reference probe 935-14-49

Surface sensor calibrator:

852-07-15	Surface sensor calibrator kit with insert and reference probe 935-14-49

Other accessories:

853-04-02	Rapid air cooling
935-14-49	Replacement sensor for surface sensor calibration and Blackbody probe
852-07-14	Replacement surface sensor insert
852-09-02	Spare insulation pack for Blackbody source
931-22-64	Carrying case

Packing information:

Size	302 x 176 x 262 mm
Weight without packing	8.5 kg