

Gemini 550 & Gemini 700 LRI

Dry Block Calibrator

The Gemini LRI (Large Removable Insert) 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 differs from the Gemini models in that it has been designed to have a large removable block with eight 8mm pockets, supplied as standard. Alternatively a block can be custom drilled allowing many probes to be calibrated simultaneously without the need for additional sleeves, ensuring excellent temperature uniformity.

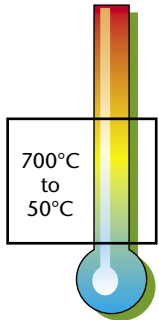
Gemini LRI is available in two models, the BASIC and the SITE. The BASIC model includes a sophisticated temperature controller with a dual display for Set Temperature and Dry Block Temperature. The large block has the benefit of higher capacity but with longer heating and cooling times compared to the fast response models such as the Jupiter 650.

The SITE 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 lab accuracy the Gemini LRI can be used with a high-end temperature indicator such as one of the Isotech True Temperature Indicators (TTI).

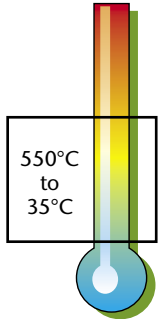
Includes as standard: Windows Software, Computer Interface and a Ramp to Set Point Feature. Increased resolution of ± 0.01 available throughout the range via the PC interface and from 0.01 to +99.99 locally on the auto-ranging front display. The controller features multi-point block to display correction giving good absolute accuracy.

The SITE 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 built-in 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.

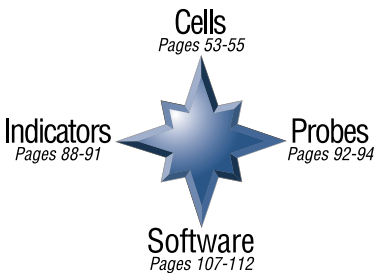
New! The SITE model can now be used with the supplied Cal Notepad software to test thermostats.



GEMINI 700 LRI



GEMINI 550 LRI



Key Features

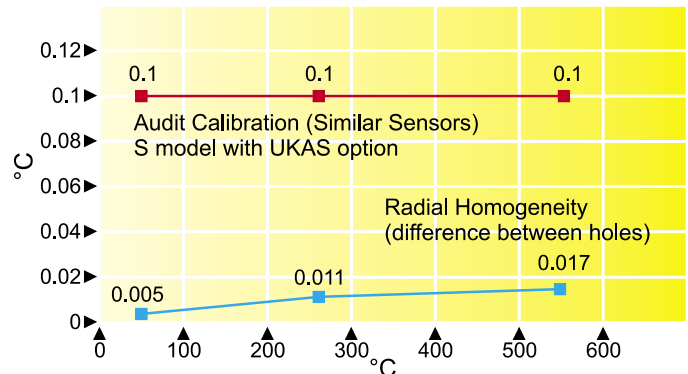
- **Calibrate Whole Calibration Loop** — using a heat source rather than an electrical simulator a test instrument and probe can be calibrated as a system
- **High Capacity Insert** — Large removable insert can hold many sensors simultaneously
- **Custom Inserts Available** — Inserts can be drilled to customer specifications to hold many sensors without the need for sleeves
- **Simple To Use** — Outstanding Value for the Money!
- **SITE Model Includes Universal Input Temperature Indicator** allowing for up to five "correction" points to be programmed
- **Windows Software and PC Interface as Standard**
- **Free Evaluation Report**
ask for full data or visit www.isotechna.com

Calibration and Uncertainty

A certificate, traceable to NIST, is included as standard.

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 Gemini 550&700 LRI meets the Calibration Capacity requirements of EA 10/13, "EA Guidelines on the Calibration of Temperature Block Calibrators".

GEMINI 550 LRI Performance





For Evaluation Reports, Uncertainty Budgets and Calculations with regard to EA10-13 UKAS etc, please contact Isotech - also <http://www.isotech.co.uk/refer.html>

SPECIFICATIONS

Model	Gemini 550 LRI & Gemini 700 LRI	
Temperature Range	Gemini 550 LRI: 35°C to 550°C Gemini 700 LRI: 50°C to 700°C	
Accuracy	≤ 0.3°C Throughout entire range	
Absolute Stability Over 30 Minutes	At 35°C ±0.02°C At 250°C ±0.03°C At 550°C ±0.04°C At 700°C ±0.05°C	
Computer Interface	Included with Windows Software	
Cooling Time	Gemini 550 LRI: 550°C to 275°C in 132 minutes Gemini 700 LRI: 550°C to 60°C in 420 minutes	
Heating Time	Gemini 550 LRI: 30°C to 550°C in 60 min. Gemini 700 LRI: 50°C to 700°C in 120min.	
Calibration Volume	64mm diameter by 160mm deep	
Standard Insert	Eight 8mm diameter pockets all 154mm deep	
Display Resolution	0.01 to 99.99 0.1 100.0 to 700.0 PC can display 0.01 across whole range with the software included	
Indicator Units	°C, °F, K	
Power	110 VAC ±10% (50 / 60 Hz) 1000 Watts	
Overall Dimensions	302mm x 176mm x 262mm (HxWxD)	
Weight	Gemini 550 LRI: 18.7 lbs (8.5kg) Gemini 700 LRI: 39.7 lbs (18kg)	

ACCESSORIES

Removable Inserts Gemini 550 LRI 	976-07-01a: Included as Standard Removable insert with eight 8mm pockets
	976-07-01b: Blank Insert <i>Insert without pockets for local machining</i>
Gemini 700 LRI 	976-07-02a: Included as Standard Removable block with eight 8mm pockets
	976-07-02b: Blank Insert <i>Insert without pockets for local machining</i>
Standard Probe	935-14-72: Platinum Resistance Thermometer for use up to 650°C
	935-14-63: Type N Thermocouple for use up to 700°C
Carrying Case	931-22-65: Sturdy case accommodates the unit with room for accessories
NIST Calibration	NIST Calibration free with purchase

HOW TO ORDER

Gemini 550 LRI
Gemini 550 LRI-SITE
Gemini 700 LRI
Gemini 700 LRI-SITE
Please specify accessories required