

Pegasus 1200

Portable Calibration Furnace

The Pegasus range offers extreme high-temperature calibration in an easy to use portable package — ideal for the calibration of high-temperature thermocouples. It has been designed for fast heating and finds applications in the glass, electrical power, automotive and material processing industries. A Blackbody target can be added for the calibration of infrared thermometers.

The standard insert has four 8mm pockets 80mm deep. The metal insert is strategically placed beneath 50mm of insulation to provide optimal performance over the radiant temperature range. For larger blocks see the Oberon model. The Pegasus is available in two models, the BASIC and the SITE. The BASIC model should be used with an external reference probe and indicator, such as the TTI 7. The thermocouples under test should be calibrated by comparison to the external probe.

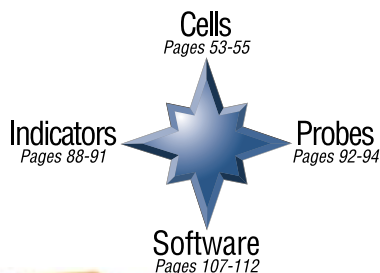
The SITE model includes a built in digital indicator to which an external standard thermometer should be connected, giving greater accuracy eliminating temperature gradient and loading errors. The recommended probe is a platinum Type S thermocouple. The optional Blackbody target is used with a specially angled Type S thermocouple that sits immediately behind the target area.

Includes as standard: Windows Software and a Computer Interface. Increased resolution of ± 0.1 available throughout the range via the PC interface and from 150.0 to 999.9 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.

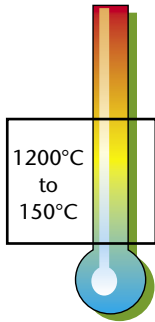


Key Features

- **Calibrate Whole Calibration Loop** — using a heat source rather than an electrical simulator, a test instrument and probe can be calibrated as a system
- **Custom furnace design** — provides fast heating with optimized thermal profile
- **High Operating Range** — Portable field use up to 1200°C
- **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

Performance Highlight

Our Pegasus utilizes a 5-point calibration between the block and display, effectively eliminating the mid-range “sag” in accuracy experienced with our competitors models. This is how we can achieve $\pm 3^\circ\text{C}$ throughout the range vs. typical values of $\pm 4^\circ$ to 5°C from our competitors.

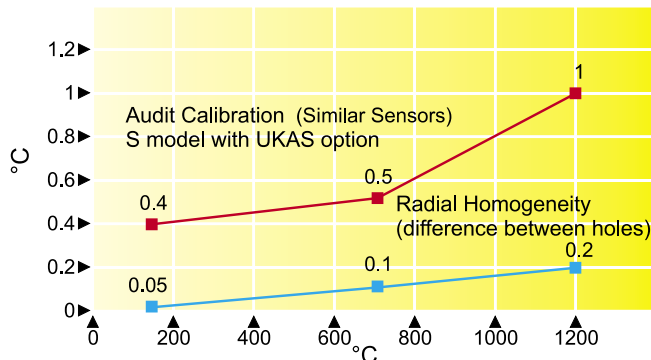


Calibration and Uncertainty

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 Pegasus 1200 meets the Calibration Capacity requirements of EA 10/13, "EA Guidelines on the Calibration of Temperature Block Calibrators".

Pegasus 1200 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>




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SPECIFICATIONS

Model	Pegasus 1200	
Temperature Range	150°C to 1200°C	
Absolute Stability Over 30 Minutes	At 150°C	±0.1°C
	At 1200°C	±0.2°C
	Blackbody Source	±0.3°C
Computer Interface	Included with Windows Software	
Cooling Time	1200°C to 800°C in 50 minutes* 1200°C to 200°C in 180 minutes* *substantially reduced by the cooling adapter	
Heating Time	100°C to 1200°C in 20 minutes	
Calibration Volume	33.5mm diameter by 130mm deep	
Standard Insert	4 pockets, 8.0mm diameter by 80mm deep	
Display Resolution	0.1 to 999.9 1 1000 to 1200 PC can display 0.1 across whole range with the software included	
Indicator Units	°C, °F, K	
Power	110 VAC ±10% (50 / 60 Hz) 2300 Watts	
Overall Dimensions	302mm x 176mm x 262mm (HxWxD)	
Weight	18.7 lbs (8.5kg)	

ACCESSORIES

	853-06-01:	Standard Insert Included
	853-06-02:	Blank Insert <i>Insert without pockets for local machining</i>
	853-06-02b:	Special Insert <i>Contact Isotech with your requirements</i>
Blackbody Kit	853-06-03:	Includes a Blackbody target and Sensor <i>The Pegasus 1200 has to be used with the target vertical. Databook 4 includes the Pegasus 1200R which is suitable for horizontal operation</i>
Air Cooling	853-04-02:	For use with a compressor this accessory allows air to be blown into the block for rapid cooling.
Ceramic Insulators	853-06-04:	Spare insulation pack Includes 2 x standard tops and 2 x standard bottoms
Standard Probe	935-14-91:	Type S Platinum Thermocouple for use up to 1200°C
Carrying Case	931-22-64:	Sturdy case accommodates the unit with room for accessories
NIST Calibration	NIST Calibration free with purchase	

HOW TO ORDER

Pegasus 1200
Pegasus 1200-SITE
Please specify accessories required