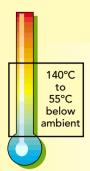


Venus^{PLUS} 2140



ISOCAL=6[®] Range

The Venus^{PLUS}2140 range offers outstanding performance in an easy to use portable package. As part of the ISOCAL-6 series the Venus^{PLUS}2140 can be used as a Dry Block, a Liquid Bath, a Blackbody Source for infrared thermometers, a Surface Sensor Calibrator and for performance to a few mK (0.001°C) ITS-90 Fixed Points. The Venus 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, refer to page 23 for further details. The S model additionally includes an in-built digital indicator to which an external temperature sensor can be connected.

For Dry Block use the unit under test may be compared to the controller value, Isotech recommend the use of an external probe connected to the indicator of the Site model (see page 23) which compensates for the temperature gradient and loading errors. This gives greater accuracy and traceability meeting the requirements of ISO 9000 and other quality standards

For Liquid Bath, Surface Sensor or Blackbody use an external thermometer should always be used either with the S model or the B model and a separate stand-alone indicator. For laboratory use the Venus can be used with a laboratory performance temperature indicator such as the Isotech TTI 5 and TTI 6 for outstanding accuracies.



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 -19.99 to +99.99 locally on the auto-ranging front display. The controller features multi-point block to display correction giving good absolute accuracy.

New in the S model is 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 inbuilt 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.

Key Features

- Calibrate Whole Measurement Loop using a heat source rather than an electrical simulator a test instrument and probe can be calibrated as a system.
- Calibrate as a Dry or Liquid Bath, thermocouples, platinum resistance thermometers, thermistors, liquid in glass, thermostats, semiconductor types.
- Covers key calibration points from below to above ambient, 0°C, 121°C (250°F), 135°C.
- Simple To Use Outstanding Value for Money!
- S 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.isotech.co.uk/industrial





ISOTECH

Venus^{PLUS} 2140

ISOCAL •6 Range

Options

1.	Metal Block Insert	951-02-15	Standard Insert Included
	•••	951-02-15a	Blank Insert Insert without pockets for
	•••	951-02-15c	local machining Special Insert Contact Isotech with your requirements
	Stirred Liquid Bath Water/Ice Bath	951-06-01	Includes a container, magnetic stirrer and
	Thermometer Support Kit	951-06-03	probe guide Allows three thermometers to be suspended in the bath, including liquid in
		951-06-06	glass types 0.1L of Oil 20°C to 140°C
4.	Blackbody Target	951-06-04	Use with Standard Probe (935-14-82)
5.	Surface Sensor Kit	951-06-02	Includes an Insert and an angled PRT.
6.	Fixed Point Cells	D8 17401 Slim	Water Slim Cell Gallium Slim Cell
Sta	andard Probe	935-14-82	Platinum Resistance Thermometer
UK	AS Calibration	UKAS Calibration available to Order	
Ca	rrying Case	931-22-27	Sturdy case accommodates the unit with room for accessories



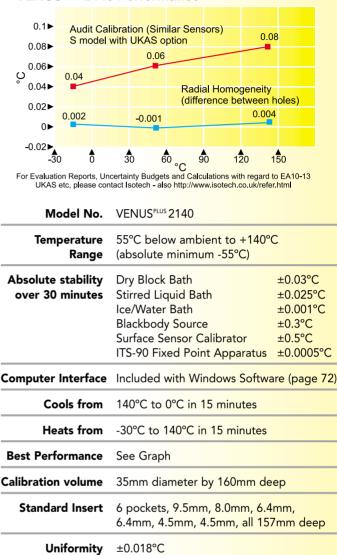
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To see the ISOCAL-6 in use ask for details of our 27 minute video
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Calibration and Uncertainty

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 Venus^{PLUS} 2140 meets the Calibration Capacity requirements of EA I0/13, "EA Guidelines on the Calibration of Temperature Block Calibrators".

VENUS^{PLUS} 2140 Performance



 Display Resolution
 0.01
 -19.99 to 99.99

 0.1
 -55.0 to -20.0 and 100.0 to 140.0

 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) 150 Watts		
Overall dimensions	Height Width Depth	302mm 176mm 262mm	
Weight	10.2kg		
How to Order	Venus ^{PLUS} 2140 Please specify model type required Please specify voltage required Please specify options required		