

-25 to 140°C

- Use with Water and Gallium Fixed Points
- Can also be used as a Dry Block, Liquid Bath
- -25°C to 140°C

The multi-functions of the Oceanus-6 is a unique concept from Isotech, so unique that it is currently the subject of a patent application.

The Oceanus-6 is a complete calibration laboratory working over the temperature range 45°C below ambient temperature to +140°C. It permits the calibration of temperature sensors absolutely (at fixed points of the ITS-90 scale) or by comparison to a reference standard.

It will calibrate both contact and non-contact thermometers such as optical pyrometers, surface sensors, liquid in glass thermometers as well as thermistors, thermocouples and resistance thermometers, whether they are short, long or odd shaped. Further it permits maintenance of reference standards by confirming the Ice or Water triple point at regular intervals.

The Oceanus-6 has a calibration volume of 52mm diameter and 300mm deep and is supplied with the very latest technology digital indicator, timer and controller making the Oceanus-6 a complete self-contained calibration laboratory.

The Oceanus-6 offers unprecedented accuracies of  $\pm 0.0002^\circ\text{C}$  (2 Sigma) at the Water triple point and the Gallium melt temperature of  $29.7646^\circ\text{C}$  and up to  $\pm 0.005^\circ\text{C}$  in the stirred liquid bath option (by comparison).

# POTTS Oceanus-6

*Automated Calibration using Fixed Point Cells.  
Temperature range 45°C below ambient to +110°C.  
Calibrate absolutely at the fixed points of ITS-90 or by comparison*



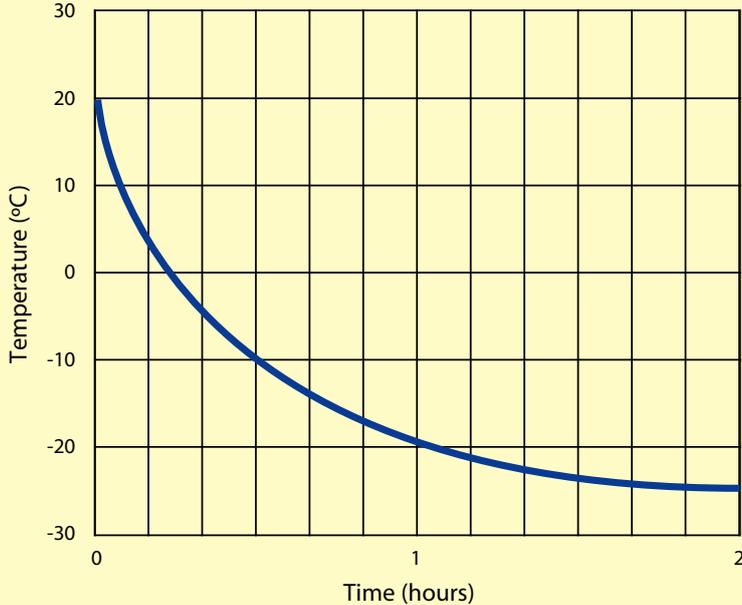
Model	580
Temperature Range	45°C below ambient to +140°C
Absolute minimum temperature	-45°C
Absolute stabilities over 30 minutes:	
Metal Block Bath	$\pm 0.03^\circ\text{C}$
Stirred Liquid Bath	$\pm 0.025^\circ\text{C}$
Ice/Water Bath	$\pm 0.001^\circ\text{C}$
Black Body Source	$\pm 0.3^\circ\text{C}$
Surface Sensor Calibrator	$\pm 0.5^\circ\text{C}$
ITS-90 Fixed Point	$\pm 0.0002^\circ\text{C}$
Heating / Cooling	See Graph
Stabilisation Times	10 minutes
Calibration Volume	52mm x 300mm deep

Uniformity	$\pm 0.018^\circ\text{C}$
Controller Resolution	0.1 to 0.01 (4 digit display)
Indicator Resolution	0.1 to 0.01 (4 digit display)
Indicator Units	$^\circ\text{C}$ , $^\circ\text{F}$ , K
Communications	Supplied as standard with serial interface, PC adaptor cable and Cal Notepad.
Power	300W, 108-130 or 208-240 VAC, 50/60Hz
Dimensions	Height 430mm Width 310mm Depth 300mm Weight 17kg

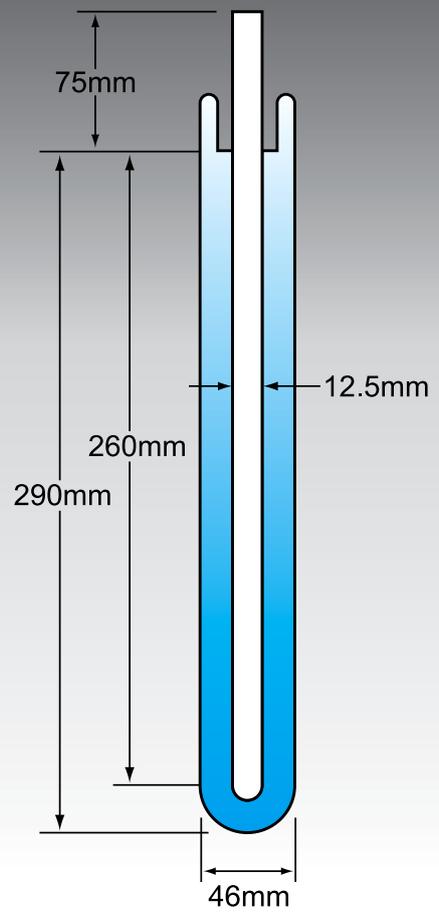
**How to order**  
580 Oceanus-6 POTTTS  
Please specify voltage required

**P** POINTS **O** ON **T** THE **T** TEMPERATURE **S** SCALE

Oceanus-6 Cool Down Graph



Type B-12 Water Triple Point Cell



Gallium Cell



**Accessories**

Metal Block Bath	Standard Insert 6 x 8mm holes x 250mm deep. Adjustable Equalising Block Non-standard Insert - please consult Isotech
Stirred Liquid Bath	Stirred Liquid Container (For alcohols, water & oils) C10 Oil (-35°C to 140°C) 1L required Liquid in Glass Thermometer Support kit
Stirred Ice/Water Bath	Stirred Liquid Container (For alcohols, water & oils) Liquid in Glass Thermometer Support kit
Blackbody Source	Blackbody Target
Surface Sensor Calibrator	Surface Sensor Calibrator Kit
ITS-90 Fixed Point	B12 Water Triple Point Cell ITL M 17401 Gallium Melting Point Cell
Semi-Standard Probe	935-14-85
Carrying Case	931-22-58
UKAS 5 Point Comparison Calibration	