

GUIDE

Medusa-511

Isotech

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Alternative methods of using Isotech Portable Calibrators

■ A Basic Dry Block Calibrator

The thermometer under test is compared to the dry block controller value.
Useful for moderate temperature ranges and quick testing.

Thermometer
under test



A control system with digital display shows the set and measured value from the calibration volume.

■ An ISO 9000 Calibration System

A thermometer under test is compared to a calibrated standard, for true traceability and clearly meets the requirements of ISO9000

Thermometer
under test

Calibrated
Standard

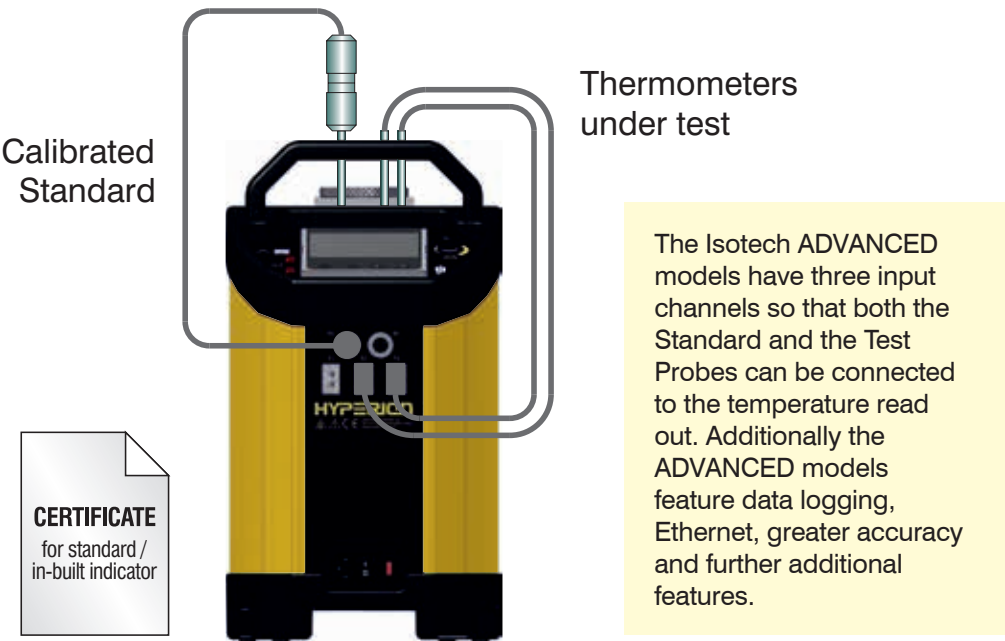


CERTIFICATE
for standard /
in-built indicator

In addition to the temperature control system with its display the Isotech SITE model includes a separate temperature read out for the Standard (Reference) probe.

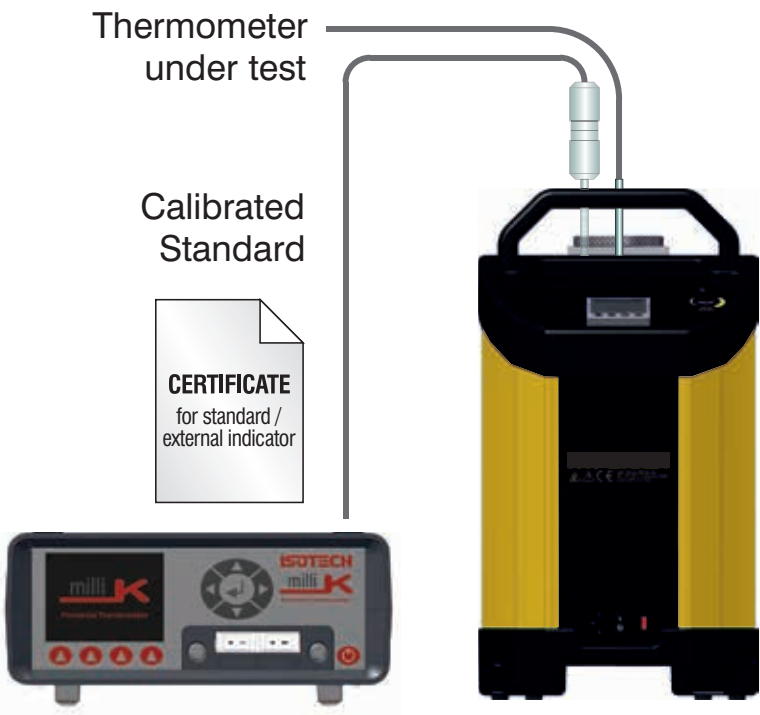
■ Isotech ADVANCED Calibrator

Isotech ADVANCED models have inputs for both the test thermometer and a calibrated standard.



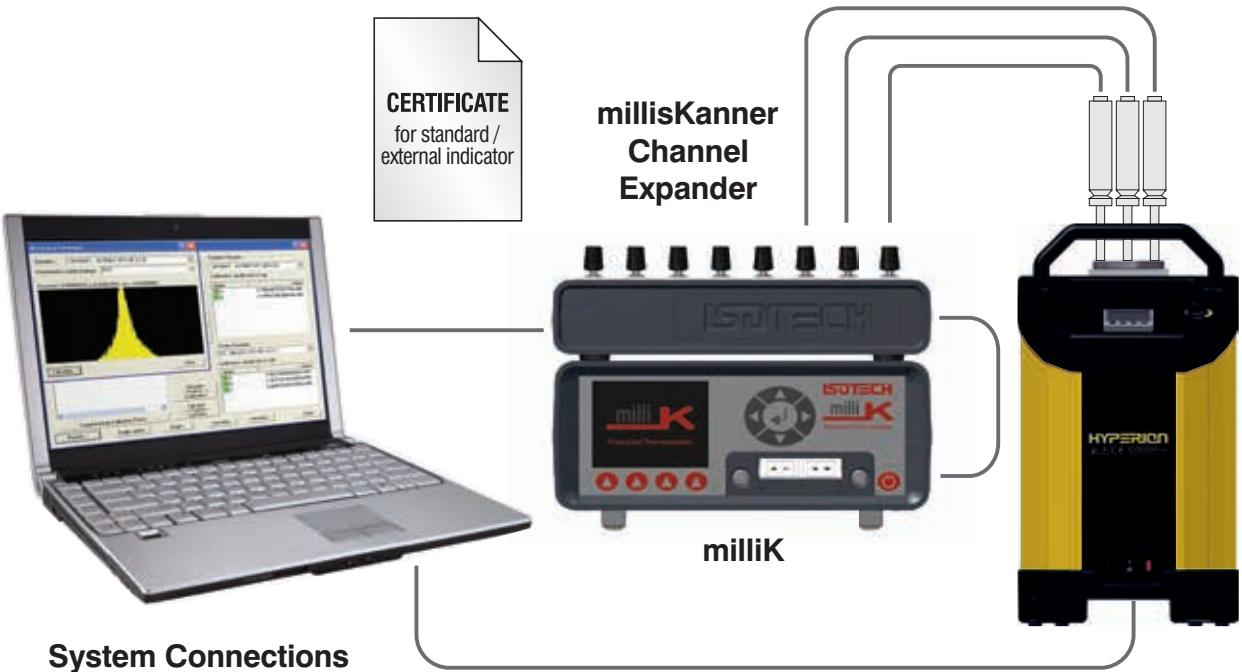
■ Using an External Indicator

Similar to the previous configuration but an external indicator is used - one instrument can be used with many calibration baths - the bath or baths do not need a calibration certificate, but they need an evaluation report.



■ An example of Multiple Sensor Calibration

You can add a scanner for multi-probe calibration - the system can then be automated.



Isotech - award winning flexible solutions for all sensor types from -45°C to 1200°C

By adding different accessories the 4000 Series can be used in up to six different modes - Dry Blocks, Liquid Baths, Ice Bath, Surface Sensor Calibrator, IR Thermometer Calibrator and even with ITS-90 Fixed Point

	Isocal-6					Dry Block Calibrators		
	HYPERION	DRAGO	EUROPA	VENUS	CALISTO	GEMINI	JUPITER	PEGASUS
Specifications								
Metal Block Bath	✓	✓	✓	✓	✓	✓	✓	✓
Stirred Liquid Bath	✓	✓	✓	✓	✓			
Stirred Ice/Water Bath	✓		✓	✓				
Blackbody Source	✓	✓	✓	✓	✓	✓	✓	✓
Surface Sensor	✓	✓	✓	✓	✓		✓	
ITS-90 Fixed Point	✓	✓	✓	✓	✓			
Temperature Range (°C)								
1200°								150°C → 1200°C
1100°								
1000°								
900°								
800°								
700°								
600°						35°C → 700°C	35°C → 660°C	
500°								
400°								
300°								
200°								
100°								
0°	-25°C → 140°C	30°C → 250°C	-45°C → 140°C	-35°C → 140°C	30°C → 250°C			
-100°								