Alternative methods of using
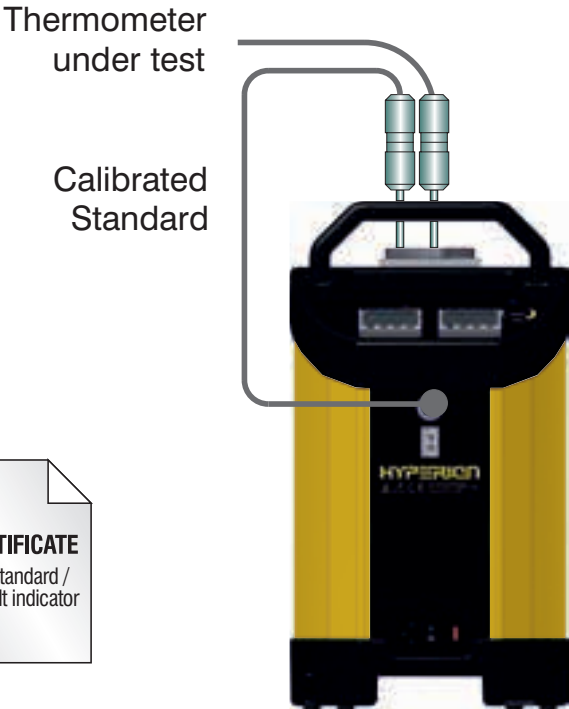# **Isotech Portable Calibrators**

■ 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
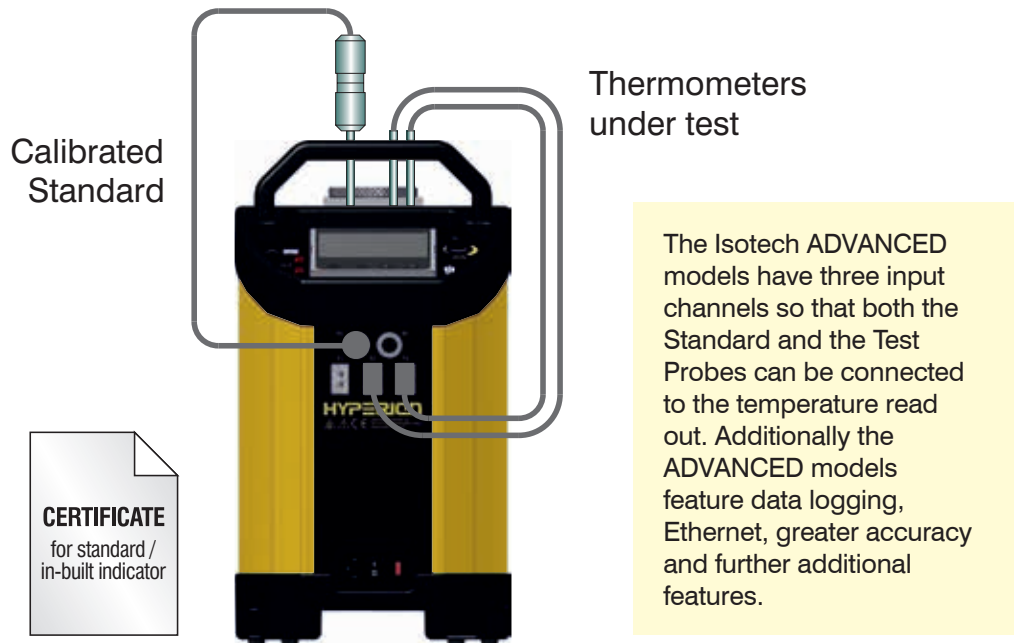from the calibration
volume.

■ 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
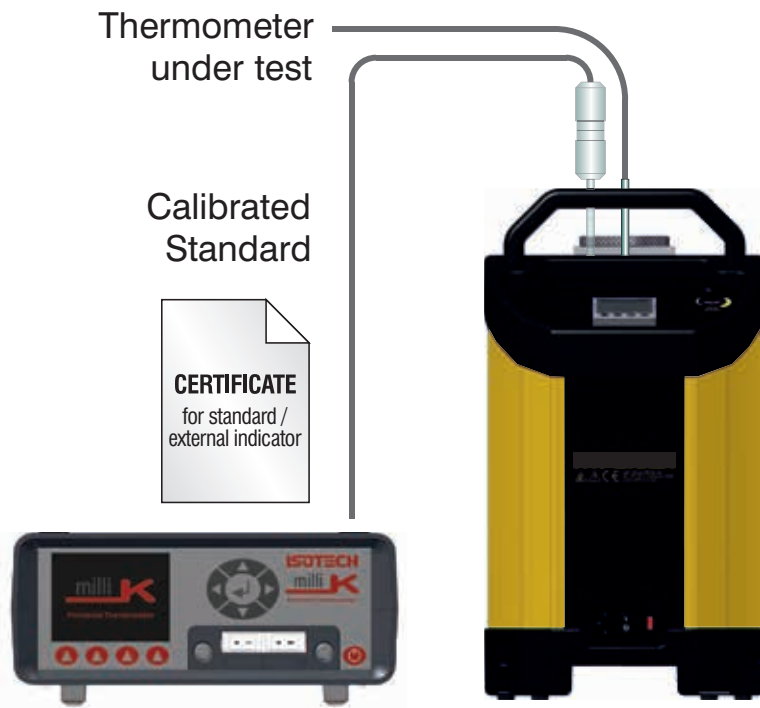out for the Standard
(Reference) probe.

■ Isotech ADVANCED Calibrator

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

Calibrated
Standard

Thermometers
under test

CERTIFICATE
for standard /
in-built indicator

The Isotech ADVANCED models have three input channels so that both the Standard and the Test Probes can be connected to the temperature read out. Additionally the ADVANCED models feature data logging, Ethernet, greater accuracy and further additional features.
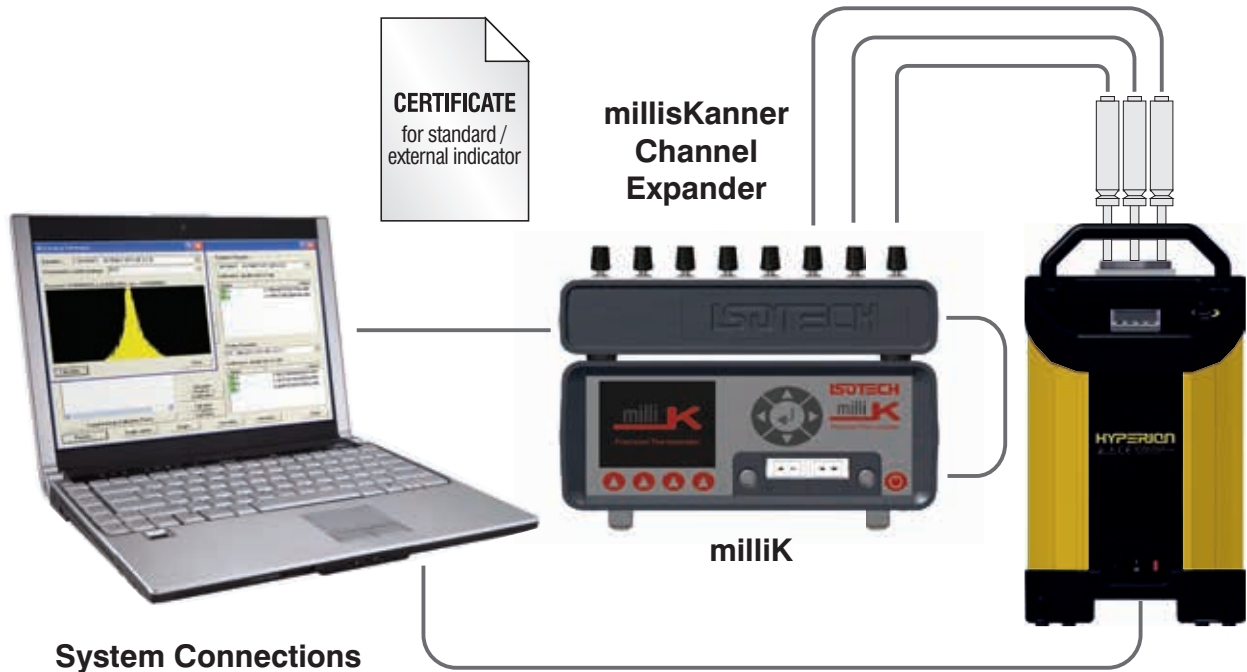
■ Using an External Indicator

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.

Thermometer
under test

Calibrated
Standard

CERTIFICATE
for standard /
external indicator

■ An example of Multiple Sensor Calibration

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

CERTIFICATE
for standard /
external indicator

**millisKanner
Channel
Expander**

milliK

System Connections

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

	Ø 65mm	Ø 65mm	Ø 35mm	Ø 35mm	Ø 35mm	Ø 65mm	Ø 35mm	Ø 33.5mm
	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
	-25°C → 140°C	30°C → 250°C	-45°C → 140°C	-35°C → 140°C	30°C → 250°C	35°C → 700°C	35°C → 660°C	