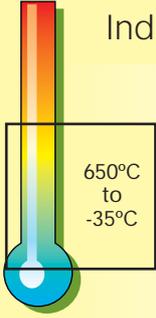# ISOTECH

Fast-Cal Range

Industrial Temperature Calibrators

650ºC to -35ºC

Fast-Cal - the product range you designed !

During early 2004 20 experienced engineers from many parts of the world were asked to produce their ideal specification for industrial calibration. Their top ten requirements, in order of priority, are listed below.

1. **Rugged**
2. **Lightweight**
3. **Easy to use on site**
4. **Low cost/high benefit ratio**
5. **Fast response, high stability**
6. **Time saving features**
7. **Multiple sensor testing**
8. **Software**
9. **Modern design**
10. **Compliant with the latest regulations**

They told us "Whatever you do don't use membrane keypads. They look great new, but after a year of being poked with ball point pens and screwdrivers the results have to be seen to be believed." We were going to include a picture but we might upset the competition.

The result is the range of Fast-Cal products.

Key Features

- Rugged, hard-wearing stainless steel case.
- Hygienic with no paint to chip or flake.
- No membrane keypads.
- Lightweight, between 6.35 and 6.60 kg depending upon the model.
- Easy to use on site. A soft, lightweight shoulder case makes transporting the Fast-Cal effortless.
- Fast response, high stability. Isotech has put 24 years of manufacturing and design experience into optimising the performance of the Fast-Cal. Compare the specifications overleaf. The block gradients are minimised by non-linear heating and cooling profiles to compensate for end losses to ambient temperature.
- The Fast-Cals are so easy to use you hardly need the manual.
- The Medium and High Fast-Cals incorporate a built-in Insert holder for ultra fast changes and restarts of calibration cycles.
- The Fast-Cals (excepting the 2010) all have the same sized removable inserts which can be drilled to your exact requirements. A standard insert is included, see the drawing on the following page.
- Benefit from the PC interface. Extra software is available for automatic calibration.
- The Fast-Cal design is modern and complies with all the relevant requirements and directives which are applicable.
- The Fast-Cals come with a certificate traceable to National Standards. Five point UKAS Certification is also available.
- Mains power variance immunity has been standard on all Isotech dry block calibrators since their conception. This feature resolves problems with fluctuating power supplies which if not acknowledged causes instability in the bath.

BASIC OR COMPLETE EXPLAINED
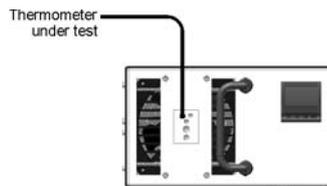
FAST-CALS ARE AVAILABLE IN BASIC OR COMPLETE MODELS

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.
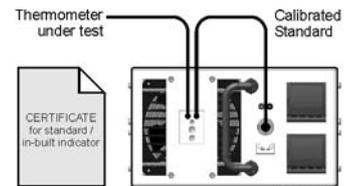
AN ISO 9000 CALIBRATION SYSTEM

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

Complete models include a semi-standard probe. See order form for details.

BASIC

COMPLETE

Fast-Cal Range

Industrial Temperature Calibrators

FAST-CAL OPTIONS

Metal Block Insert		
	907-02-03	Standard Insert Included (Low and Medium)
	907-02-03b	Blank Insert (Low and Medium)
	907-02-03c	Special Insert (Low and Medium)
	907-02-03d	Standard Insert Included (High only)
	907-02-03f	Blank Insert (High only)
	907-02-03g	Special Insert (High only)

UKAS Calibration	UKAS Calibration available to Order

FAST-CAL INSERTS

Fixed Block   2010

Model HTM2010 has a fixed block optimised for Hospital Validation Systems.

Ø8.0mm x 145mm deep
Ø6.5mm x 145mm deep
Ø4.5mm x 145mm deep
Ø4.5mm x 145mm deep
Ø4.5mm x 145mm deep

Standard Insert   **Low, Medium, High**

Ø8.0mm x 140mm deep
Ø6.5mm x 140mm deep
Ø4.5mm x 140mm deep
Ø4.5mm x 140mm deep
M4 Extraction Hole

Model No.	FAST-CAL HTM 2010	FAST-CAL LOW	FAST-CAL MEDIUM	FAST-CAL HIGH
Range at 20°C	-35 to +140°C	-35 to +140°C	30 to 350°C	35 to 650°C
Stability	0.02°C	0.02°C	0.03°C	0.03 to 0.05°C
Accuracy - Basic	±0.2°C	±0.2°C	±0.3°C	±1°C (500°C) ±2°C (650°C)
Accuracy - Complete*	±0.15°C	±0.15°C	±0.2°C	±0.5°C
Heating Time	-30 to +140°C In 15 minutes	-30 to +140°C In 15 minutes	50 to 350°C In 15 minutes	50 to 650°C In 20 minutes
Cooling Time	+140 to 0°C In 15 minutes	+140 to 0°C In 15 minutes	350 to 100°C In 40 minutes	650 to 300°C In 20 minutes
Calibration Capacity	145mm depth 8Ø, 6.5Ø, 3 x 4.5Ø	148mm depth 25mm Ø	148mm depth 25mm Ø	148mm depth 25mm Ø
Power	150W	150W	750W	750W
Traceable Certificate	Included	Included	Included	Included
UKAS Certificate	Extra	Extra	Extra	Extra
PC Communications	Included	Included	Included	Included
Software	Included	Included	Included	Included
4-20mA Input	Complete Models	Complete Models	Complete Models	Complete Models
Thermal Switch Test	Complete Model with Software	Complete Model with Software	Complete Model with Software	Complete Model with Software
Ramps and Dwells	Yes with Software	Yes with Software	Yes with Software	Yes with Software
Dimensions	228 x 248 x 143mm	228 x 248 x 143mm	228 x 248 x 143mm	228 x 248 x 143mm
Weight	6.60kg	6.60kg	6.35kg	6.35kg
How to Order	FAST-CAL HTM2010 Basic or Complete Please specify Voltage Please specify Options	FAST-CAL LOW Basic or Complete Please specify Voltage Please specify Options	FAST-CAL MEDIUM Basic or Complete Please specify Voltage Please specify Options	FAST-CAL HIGH Basic or Complete Please specify Voltage Please specify Options

*When used with a suitable Isotech Semi Standard PRT.