



HC-DB35 Dual Dry Block (Hot & Cold) Temperature Calibrator

Hot & Cold Dry Block Temperature Calibrator

Ideal for fast site calibration in the lab or field

This Dual Dry Block can calibrate 2 temperature sensors simultaneously, or 2 different temperatures in quick time

- **Range:**
Cold Bath: -35°C from amb. to 123°C (31°F to 253.4°F)
Hot Bath: 50°C to 350°C (122°F to 662°F)
- **Accuracy:**
Cold Bath: $\pm 0.05^{\circ}\text{C}$
Hot Bath: $\pm 0.1\%$ F.S. + 1 digit
- **Resolution:**
Cold Bath: 0.1°C
Hot Bath: 1°C
- **Stability:**
Cold Bath: $\pm 0.05^{\circ}\text{C}$
Hot Bath: $\pm 0.5^{\circ}\text{C}$
- **Heating Time: (to max.)**
Cold Bath: 10 minutes (approx.)
Hot Bath: 18 minutes (approx.)
- **Cooling Time: (to min.)**
Cold Bath: 20 minutes (approx.)
Hot Bath: 60 minutes (approx.)
- **Interchangeable Thermowells**
- **NIST Calibration Certification Included**



Accurate

Cost Effective

Easy to use

Efficient

Fast

Portable

Reliable

Sturdy



E Instruments International

www.E-Inst.com

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HC-DB35 Dual Dry Block (Hot & Cold) Temperature Calibrator

Dual Dry Block

The **HC-DB35 Calibrator** is a portable source that offers fast temperature calibration in an easy to use design for both Cold Bath & Hot Bath Temperatures ranges simultaneously.

Common Display & PD Control
Calibrate both Hot & Cold Blocks

Dual (Hot & Cold) Calibration
Reduce Calibration time by 50%

Accuracy:
Cold Bath: $\pm 0.5^{\circ}\text{C}$
Hot Bath: $\pm 0.1\%$ F.S.+1 digit



Applications

The **HC-DB35** is designed to verify and calibrate 2 temperature sensors, and/or 2 different temperatures in quick time.

Cold Bath Range:
 -35°C from amb. to 123°C

Hot Bath Range:
 50°C to 350°C

Stability:
Cold Bath: $\pm 0.05^{\circ}\text{C}$
Hot Bath: $\pm 0.5^{\circ}\text{C}$

HC-DB35 Dual (Hot & Cold) Dry Block Specifications

Range:	* See above tab on right *	* Specifications subject to change *
Stability:	* See above tab on right *	Dimensions (WxHxD) 244 x 430 x 341mm (9.61" x 16.93" x 13.43")
Accuracy:	* See above tab on left *	Weight: 8Kg (17.64 lbs)
Heating Speed:	Cold Bath: ≈ 10 min. / Hot Bath: ≈ 18 min.	
Cooling Speed:	Cold Bath: 20 min. / Hot Bath: 60 min.	
Stabilization Time:	Cold Bath: TBD min. / Hot Bath: TBD min.	
Display:	3 1/2 digit display (LED)	
Well Depth:	Cold Bath: 100mm / Hot Bath: 120mm	
Well Dia.:	Cold Bath: 19mm / Hot Bath: 25mm	
Thermal Switch:	Provided / 5VDC (open)	Warranty: 1 Year Warranty
Interchangeable Thermowells	Cold Bath: 1/4" diameter Hot Bath: 1/4" & 1/2" diameter	Power Supply: Switch Selectable: 115V or 230V AC 50/60Hz

Working Standard Reference Accessories

- 2160** - TC S 1400°C Working Reference Standard Probe
- 2168** - TC K 1100°C Working Reference Standard Probe
- 2184** - Pt100 Class A Working Reference Standard Probe

Power Consumption: 1200 Watts

Model No. **Ordering Information**

- HC-DB35** HC-DB35 unit, AC Cable, Cable for Thermostat Switch Test, Insertion Tube Tool, Interchange Thermowells Cold Bath 1/4" dia., Hot Bath: 1/4" & 1/2" Bore dia., Manual, Spare Fuses, & NIST Calibration Certificate
- 1 120V 50/60Hz US Plug
 - 2 230V 50/60Hz with Schuko Plug
 - 3 230V 50/60Hz with UK Plug
 - 4 230V 50/60Hz with European Plug

HC-DB35 Accessories

- HC-DB35-18P - Single Hole Insert: 1/8"
- HC-DB35-14P - Single Hole Insert: 1/4"
- HC-DB35-38P - Single Hole Insert: 3/8"
- HC-DB35-12P - Single Hole Insert: 1/2"
- HC-DB35-34P - Single Hole Insert: 3/4"
- HC-DB35-78P - Single Hole Insert: 7/8"

Note:

- Single Hole mm Inserts available upon request: 3, 4, 6, 7, 8, 10, 12, 19, & 21mm
- Additional Multi-hole Inserts available upon request
Examples: 1x 6mm + 1x 8mm
3x 6mm
1x10mm + 1x 4mm
1x 1/8" + 1x 3/16"
1x 5/16" + 1x 3/8"