

## Temperature

# Universal Dry Block Medium Temperature Calibrator

**Portable / Bench-top  
Precision Dry Block Calibrator  
with Interchangeable Thermowells**

*Ideal for quick / fast Site Calibration of  
RTDs / TCs / Bi-Metal Thermometers,  
Temperature Switches / Indicators etc. in  
Industrial & Marine Applications*

*High Accuracy, Resolution & Stability with  
**Measurement Capability** for mV / V / mA,  
Resistance TC (ISA Types : J, K, R, S, N),  
RTD (Pt100 : IEC Standard) Signals*

### Model

**CTM-650**

- Range : 50°C to 650°C
- Accuracy :  $\pm 0.6^\circ\text{C}$
- Advanced – Microprocessor based Technology
- Heavy Duty Portable / Bench-top Model
- High Accuracy, Resolution & Stability
- 128 x 64 Graphic Display
- Measurement Capability for TC, RTD, mV / mA / V & Resistance Signals
- Touch Membrane Keypad
- Switch Test Contact Measurement
- Interchangeable Thermowell Inserts, Single / Multihole
- RS-232 Interface & Calibration Software



## Specifications

CTM-650

<b>Range</b>	50°C to 650°C	
<b>Resolution</b>	0.1°C	
<b>Accuracy</b>	±0.6°C	
<b>Stability</b>	±0.05°C	
<b>Stabilisation Time</b>	15 to 20 Minutes	
<b>Temperature Readout</b>	°C / °F Switchable	
<b>Well Diameter</b>	25 mm	
<b>Immersion Depth</b>	110 mm	
<b>Heating Time (Ambient to max.)</b>	20 Minutes	
<b>Cooling Time (to 100°C)</b>	33 Minutes	
<b>Switch Test facility / Supply</b>	Provided / 5 V DC (open)	
<b>Interchangeable Thermowells</b>	Single hole to suit 1/4" & 1/2" Probes. Other Sizes / Multihole available as optional	
<b>Housing / Mounting</b>	Bench-top	
<b>Power Supply / Consumption</b>	230V AC / 50 Hz / 1200 W	
<b>Instrument Dimensions (L x D x H)</b>	160 x 365 x 350 mm	
<b>Instrument Weight</b>	11 Kg.	
<b>Measurement Capability</b>	<b>Thermocouples</b> : ISA Types J, K, R, S, N <b>mA</b> : 0 to 25 mA <b>mV</b> : 0 to 100 / 1000 mV <b>Resistance</b> : 0 to 500 Ohms / 3.5 KOhms	<b>RTD</b> : Pt100 IEC Std. <b>Volt</b> : 0 to 10 V

### Measurement : Range, Resolution & Accuracy

Type	Range	Resolution	Accuracy
mV (Low)	0 to 100	0.01	±0.05% F.S.
mV (High)	0 to 1000	0.1	
Volts	0 to 10	0.001	
mA	0 to 25	0.001	
Ohms	0 to 500	0.01	
KOhms	0 to 3.5	0.0001	
TC Type J	-100 to 1200	0.1	±0.1% F.S.
TC Type K	-60 to 1260		
TC Type R	150 to 1760		
TC Type S	170 to 1760		
TC Type N	0 to 1300		
RTD Pt100	-100 to 800		±0.05% F.S.

#### STANDARD DELIVERY

- Basic Instrument
- Test Leads
- Mains Cable
- Insertion Tubes (to suit 1/4" & 1/2" probes)
- Tool for Insertion Tubes
- Spare Fuses
- RS-232 Computer Interface
- "Caltemp" Calibration Software
- Traceable Calibration Certificate
- Instruction Manual
- Carrying Case

#### OPTIONALS

- Additional Thermowells / Insertion Tubes :  
(to choose from) :  
Single hole standard sizes to suit  
1/8", 1/4", 3/8", 1/2", 3/4", 7/8" & 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 17, 19 & 21 mm probes  
Multihole (Typical) : (1x6 + 1x8), (3x6), (1x10 + 1x4) mm
- 115V AC / 60 Hz Power Supply
- Calibration Certificate from NABL Accredited – as per ISO/IEC 17025:2005 Laboratory

**PRISMA**  
Instruments  
& Gauge Bourdon France

