

Temperature

New
Improved
Improved

Nagman Metrological Dry Block Medium Temperature Calibrator

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

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

Measuring Accuracy : $\pm 0.025\%$ of rdg.

*High Accuracy, Resolution & Stability with
Measurement Capability for mV / V / mA,
Resistance TC (ISA Types : J, K, R, S, N),
RTD (Pt100, Pt200, Pt500, Pt1000 : IEC Standard) Signals*

Model

METCAL 650

- Range : 50°C to 650°C
- Accuracy : $\pm 0.4^\circ\text{C}$
- Advanced – Micro-controller 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
- Multi-hole Thermowell Inserts
- RS-232 Interface & Calibration Software
- Count down timer (Shows when unit is stable)
- Stability Indicator



Specifications

METCAL 650

Range	50°C to 650°C			
Resolution	0.01°C			
Accuracy	±0.4°C			
Stability	±0.04°C			
Stabilisation Time	15 Minutes			
Temperature Readout	°C / °F Switchable			
Axial Uniformity (40 mm)	±0.4°C			
Radial Uniformity	±0.04°C			
Well Diameter	30 mm			
Immersion Depth	150 mm			
Heating Time (50 to 650°C)	36 Minutes approx.			
Cooling Time (650 to 100°C)	75 Minutes approx.			
Switch Test facility	Provided			
Interchangeable Thermowells	Multihole to suit 2 x ¼" & 1 x ½" Probes. Other Sizes available as optional			
Housing / Mounting	Bench-top			
Power Supply / Consumption	230V AC, 50 Hz & 115V AC, 60 Hz - 1400W – Selectable			
Instrument Dimensions (L x D x H)	160 x 365 x 450 mm			
Instrument Weight (approx.)	11 Kg.			
Measurement Capability	Thermocouples mA Volt	ISA Types J, K, R, S, N 0 to 25 mA 0 to 10 V	RTD mV Resistance	Pt100 IEC Std. 0 to 100 / 1000 mV 0 to 500Ω / 3.5 KΩ

Measurement : Range, Resolution & Accuracy

Type	Range	Resolution	Accuracy (% of reading)
mV (Low)	0 to 100	0.001	±(0.025%+2μV)
mV (High)	0 to 1000	0.01	±(0.025%+10μV)
Volts	0 to 10	0.0001	±(0.025%+0.08mV)
mA	0 to 25	0.0001	±(0.025%+0.4μA)
Ohms	0 to 500	0.001	±(0.025%+12mΩ)
KOhms	0 to 3.5	0.00001	±(0.025%+120mΩ)
TC Type J	-100 to 1200	0.1	±(0.025%+0.1°C)
TC Type K	-60 to 1260	0.1	±(0.025%+0.1°C)

Type	Range	Resolution	Accuracy
TC Type R	150 to 1700	0.1	±(0.025%+0.2°C)
TC Type S	170 to 1700	0.1	±(0.025%+0.2°C)
TC Type N	0 to 1300	0.1	±(0.025%+0.1°C)
RTD Pt100	-100 to 800	0.01	±(0.025%+0.1°C)
RTD Pt200	-100 to 600	0.1	±(0.025%+0.15°C)
RTD Pt500	-100 to 530	0.1	±(0.025%+0.1°C)
RTD Pt1000	-100 to 650	0.01	±(0.025%+0.1°C)

STANDARD DELIVERY

- Basic Instrument
- Test Leads
- Mains Cable
- Multihole Insertion Tubes (to suit 2 x ¼" & 1 x ½" probes)
- Tool for Insertion Tubes
- Spare Fuses
- RS-232 Interface & "METCAL" Calibration Software
- Calibration Certificate from NABL Accredited – as per ISO/IEC 17025:2005 Lab
- Instruction Manual
- Carrying Case

OPTIONALS

- For additional Thermowells, / Insertion Tubes & Multihole, contact us.

Manufactured by

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