

Temperature

New
Improved

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

LAB STANDARD

Model

METCAL 40

- Range : -10°C to 120°C
- Accuracy : $\pm 0.2^\circ\text{C}$
- Advanced – Micro-controller based Technology
- Heavy Duty Portable / Bench-top Model
- High Accuracy, Resolution, Uniformity & Stability
- Large Graphic Display (Multi-information 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

Nagman Dry Block Sub-Zero Temperature Calibrator

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

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*



Specifications

METCAL 40

Range	-10°C to 120°C		
Resolution	0.01°C		
Accuracy	±0.2°C		
Stability	±0.02°C		
Stabilisation Time	7 Minutes		
Temperature Readout	°C / °F Switchable		
Axial Uniformity (40 mm)	±0.2°C		
Radial Uniformity	±0.02°C		
Well Diameter	30 mm		
Immersion Depth	150 mm		
Heating Time (Amb. to 120°C)	10 Minutes approx.		
Cooling Time (Amb. to -10°C)	15 Minutes approx.		
Cooling Time (120 to -10°C)	25 Minutes approx.		
Switch Test facility	Provided		
Interchangeable Thermowells	Multihole to suit 2 x ¼" & 1 x ½" Probes. Other Sizes available as optional		
Housing	Bench-top		
Power Supply	110V AC to 240V AC, 50 to 60 Hz		
Instrument Dimensions (L x D x H)	160 x 365 x 450 mm		
Instrument Weight (approx.)	9 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, Pt200, Pt500, Pt1000 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

Nagman Instruments & Electronics (P) Ltd.

27th KM Stone, Chennai-Bangalore NH-4, Nazarethpet P.O., Chembarambakkam, Chennai – 600 123. INDIA.

Domestic Sales

Phone 044 – 26810280, 1280, 0600, 1300

Fax 044 – 26811703

E-Mail mktgchennai@nagman.com

International Sales

+91-44-26811704, 26811708

+91-44-26811703

exports@nagman.com

www.nagman.com

