

Metrological Dry Block High Temperature Calibrator

Portable/Benchtop

Metcal 1200

Lab Standard

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, B, T), RTD (Pt100, Pt200, Pt500, Pt1000 : IEC Standard) Signals

SALIENT FEATURES

- 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
- Single / Multi-hole Thermowell Inserts
- Computer Interface & Calibration Software
- Count down timer (Shows when unit is stable)
- Stability Indicator



SPECIFICATIONS

Range	150°C to 1200°C			
Resolution	0.1°C			
Accuracy	$\pm 2^\circ\text{C}$			
Stability	$\pm 0.3^\circ\text{C}$			
Stabilisation Time	15 Minutes			
Temperature Readout	°C / °F Selectable			
Well Diameter	33 mm			
Immersion Depth	105 mm			
Heating Time (150 to 1200°C)	90 Minutes (approx.)			
Cooling Time (1200 to 800°C)	30 Minutes (approx.)			
Cooling Time (800 to 150°C)	120 Minutes (approx.)			
Switch Test facility	Provided			
Interchangeable Thermowells	Multihole to suit (8.5 mm x 2) + (6.5 mm x 1) Probes			
Housing / Mounting	Bench-top			
Power Supply / Consumption	230V AC, 50 Hz – 600 W			
Instrument Dimensions (L x D x H)	160 x 365 x 450 mm			
Instrument Weight (approx.)	11.6 Kg.			
Measurement Capability	Thermocouples	ISA Types J, K, R, S, N, B, T	RTD	Pt100, 200, 500, 1000 IEC Std.
	mA	0 to 25 mA	mV	0 to 100 / 1000 mV
	Volt	0 to 10 V	Resistance	0 to 500Ω / 3.5 KΩ

MEASUREMENT : RANGE, RESOLUTION & ACCURACY

Type	Range	Resolution	Accuracy (% of reading)
mV (Low)	0 to 100	0.001	$\pm(0.025\%+2\mu\text{V})$
mV (High)	0 to 1000	0.01	$\pm(0.025\%+10\mu\text{V})$
Volts	0 to 10	0.0001	$\pm(0.025\%+0.08\text{mV})$
mA	0 to 25	0.0001	$\pm(0.025\%+0.4\mu\text{A})$
Ohms	0 to 500	0.001	$\pm(0.025\%+12\text{m}\Omega)$
KOhms	0 to 3.5	0.00001	$\pm(0.025\%+120\text{m}\Omega)$
RTD Pt100	-100 to 800	0.01	$\pm(0.025\%+0.1^\circ\text{C})$
RTD Pt200	-100 to 600	0.01	$\pm(0.025\%+0.15^\circ\text{C})$
RTD Pt500	-100 to 530	0.01	$\pm(0.025\%+0.1^\circ\text{C})$
RTD Pt1000	-100 to 650	0.01	$\pm(0.025\%+0.1^\circ\text{C})$

Type	Range	Resolution	Accuracy (% of reading)
TC Type J	-100 to 1200	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type K	-60 to 1260	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type R	150 to 1700	0.1	$\pm(0.025\%+0.2^\circ\text{C})$
TC Type S	170 to 1700	0.1	$\pm(0.025\%+0.2^\circ\text{C})$
TC Type N	0 to 1300	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type B	920 to 1820	0.1	$\pm(0.025\%+0.2^\circ\text{C})$
TC Type T	0 to 400	0.1	$\pm(0.025\%+0.1^\circ\text{C})$

STANDARD INCLUSIONS

- Basic Instrument
- Test Leads
- Mains Cable
- Multihole Insertion Tubes (8.5 mm x 2) + (6.5 mm x 1) Probes
- Tool for Insertion Tubes
- Spare Fuses
- Computer Interface & "METCAL" Calibration Software
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards
- Instruction Manual
- Carrying Case

OPTIONAL (ADD-ON) ITEMS

- Additional Thermowells/Insertion Tubes & Multihole - Contact us

Manufactured by

Since 1972

NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED**AN ISO 9001:2015 CERTIFIED COMPANY**

170/1a2, Chennai Bangalore Highway Road, Sembarambakkam, Chennai – 600 123. INDIA.

Phone - Domestic Sales 044-6677 7024, 044-6677 7005 Email : mktgchennai@nagman.comPhone - Export Sales +91-44-6677 7025. Email : exports@nagman.comwww.nagman.com

Specifications subject to change owing to continuous development. Contact us for latest Datasheet.

NIE/TDS/Metcal 1200/2309/00