

Universal Dry Block High Temperature Calibrator

Portable/Benchtop

MTC 1200

Measurement Capability

Precision Dry Block Calibrator with Interchangeable Thermowells

Ideal for Steel, Glass, Metallurgical Industries, Cement Plants, Refineries, Fertilizer Plants, Thermal Power Stations etc.

High Accuracy, Resolution & Stability with Measurement Capability for mV / V / mA, Resistance TC (ISA Types J, K, R, S, N, B, T), RTD (Pt100: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
Interchangeable Single hole Thermowell Inserts
Computer Interface & Calibration Software



SPECIFICATIONS

Range	300°C to 1200°C			
Resolution	1°C			
Accuracy	±2°C			
Stability	±0.5°C			
Stabilisation Time	15 Minutes			
Temperature Readout	°C / °F Selectable			
Well Diameter	26 mm			
Immersion Depth	105 mm			
Dry Block Material	Inconel			
Heating Time (Ambient to max.)	60 Minutes approx.			
Cooling Time (to min.)	45 Minutes approx. (with Forced Air Cooling) **			
Switch Test facility	Provided			
Thermowell Dia	8 mm			
Housing / Mounting	Bench-top			
Power Supply	230V AC, 50 Hz			
Instrument Dimensions (L x D x H)	160 x 365 x 450 mm			
Instrument Weight (approx.)	15 Kg.			
Measurement Capability	Thermocouples	ISA Types J, K, R, S, N, B, T	RTD	Pt100 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
mV (Low)	0 to 100	0.01	±0.05% F.S.
mV (High)	0 to 1000	0.1	±0.05% F.S.
Volts	0 to 10	0.001	±0.05% F.S.
mA	0 to 25	0.001	±0.05% F.S.
Ohms	0 to 500	0.01	±0.05% F.S.
KOhms	0 to 3.5	0.0001	±0.05% F.S.
RTD Pt100	-100 to 800	0.1	±0.05% F.S.

Type	Range	Resolution	Accuracy
TC Type J	-100 to 1200	0.1	±0.1% F.S.
TC Type K	-60 to 1260	0.1	±0.1% F.S.
TC Type R	150 to 1700	0.1	±0.1% F.S.
TC Type S	170 to 1700	0.1	±0.1% F.S.
TC Type N	0 to 1300	0.1	±0.1% F.S.
TC Type B	920 to 1820	0.1	±0.1% F.S.
TC Type T	0 to 400	0.1	±0.1% F.S.

STANDARD INCLUSIONS

- Basic Instrument
- Test Leads
- Mains Cable
- Thermowell of 8 mm Dia
- Tool for Insertion Tubes
- Spare Fuses
- 1/4" BSP (F) Hose Adaptor with 6 mm Hose (1.5 Meter Length)
- Computer Interface
- "MTCCal" Calibration Software
- Traceable Calibration Certificate
- Instruction Manual
- Carrying Case

OPTIONAL (ADD-ON) ITEMS

- Additional Thermowells / Insertion Tubes : Single hole
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Manufactured by



Since 1972

NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED

AN ISO 9001:2015 CERTIFIED COMPANY

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

NIE/TDS/MTC 1200/2309/00