

Universal Dry Block Sub-Zero Temperature Calibrator

Portable/Benchtop

MTC 40 Plus

Measurement Capability

Precision Dry Block Calibrator with Interchangeable Thermowells

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

High Accuracy, Resolution & Stability with Measurement Capability for mA, Resistance, RTD (Pt100, Pt200, Pt500, Pt1000) Signals

SALIENT FEATURES

Advanced – Micro-controller based Technology
Heavy Duty Portable / Bench-top Model
High Accuracy, Resolution & Stability
Fast & heat cooling
128 x 64 Graphic Display
Measurement Capability for RTD, mA & Resistance Signals
Touch Membrane Keypad
Switch Test Contact Measurement
Interchangeable Single hole Thermowell Inserts
Computer Interface & Calibration Software



SPECIFICATIONS

Range	-30°C to 120°C (@ 21°C)	
Resolution	0.1°C	
Accuracy	±0.3°C	
Stability	±0.05°C	
Stabilisation Time	7 Minutes	
Temperature Readout	°C / °F Selectable	
Well Diameter	30 mm	
Immersion Depth	110 mm	
Heating Time (Ambient to max.)	14 Minutes approx.	
Cooling Time (to min.)	55 Minutes approx.	
Switch Test facility	Provided	
Interchangeable Thermowells	Multihole : 2 x ¼" & 1 x ½" Standard	
Housing / Mounting	Bench-top	
Power Supply / Consumption	230V AC, 50 Hz, 140 W	
Instrument Dimensions (L x D x H)	160 x 365 x 350 mm	
Instrument Weight (approx.)	9 Kg.	
Measurement Capability	Thermocouples : J, K, R, S, N, B, T	mA : 0 to 25 mA;
	Resistance : 0 to 500 Ω / 3.5 KΩ;	RTD : Pt100, Pt200, Pt500 & Pt1000

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.
RTD Pt200	-100 to 600	0.1	±0.05% F.S.
RTD Pt500	-100 to 530	0.1	±0.05% F.S.
RTD Pt1000	-100 to 650	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 & Spare Fuses
- Insertion Tubes : Multihole : 2 x ¼" & 1 x ½"
- Tool for Insertion Tubes
- Computer Interface
- "MTCCal" Calibration Software
- Traceable Calibration Certificate
- Carrying Case
- Instruction Manual

OPTIONAL (ADD-ON) ITEMS

- Consult us for Multihole (Typical) Probes
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards
- Power Supply 110V AC, 60 Hz

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 40+/01/01

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