

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 ±2°C Ambient)	
Resolution	0.1°C	
Accuracy	±0.3°C	
Stability	±0.1°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 (Ambient to -30°C)	30 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



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+/2309/00