

# Universal Dry Block Sub-Zero Temperature Calibrator

Portable/Benchtop

MTC 40

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	-10°C to 123°C	
Resolution	0.1°C	
Accuracy	±0.3°C	
Stability	±0.05°C	
Stabilisation Time	7 Minutes	
Temperature Readout	°C / °F Selectable	
Well Diameter	19 mm	
Immersion Depth	100 mm	
Heating Time (Ambient to max.)	14 Minutes approx.	
Cooling Time (to min.)	34 Minutes approx.	
Switch Test facility	Provided	
Interchangeable Thermowells	Single hole to suit 1/4" Probe	
Housing / Mounting	Bench-top	
Power Supply	230V AC, 50 Hz	
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 (to suit 1/4" probe)
- Tool for Insertion Tubes
- Computer Interface
- "MTCCal" Calibration Software
- Traceable Calibration Certificate
- Carrying Case
- Instruction Manual

#### OPTIONAL (ADD-ON) ITEMS

- Additional Single / Multihole hole Insert (Maximum 15 mm)
- Power Supply 110V, 60 Hz
- 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**

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

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