

## Temperature

# Nagman Universal Dry Block Low Temperature Calibrator

**Portable / Bench-top  
Precision Dry Block Calibrator  
with Interchangeable Thermowells**

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

*High Accuracy, Resolution & Stability with  
**Measurement Capability** for mV / V / mA,  
Resistance TC (ISA Types : J, K, R, S, N),  
RTD (Pt100 : IEC Standard) Signals*

### Model

**MTC 350**

- Range : 50°C to 350°C
- Accuracy :  $\pm 0.4^\circ\text{C}$
- 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 Thermowell Inserts, Single / Multihole
- RS-232 Interface & Calibration Software



## Specifications

MTC 350

Range	50°C to 350°C		
Resolution	0.1°C		
Accuracy	±0.4°C		
Stability	±0.05°C		
Stabilisation Time	20 Minutes		
Temperature Readout	°C / °F Switchable		
Well Diameter	25 mm		
Immersion Depth	110 mm		
Heating Time (Ambient to max.)	20 Minutes approx.		
Cooling Time max. (to 100°C)	33 Minutes approx.		
Switch Test facility	Provided		
Interchangeable Thermowells	Single hole to suit 1/4" & 1/2" Probes.		
Housing / Mounting	Bench-top		
Power Supply / Consumption	230V AC, 50 Hz, 520 W		
Instrument Dimensions (L x D x H)	160 x 365 x 350 mm		
Instrument Weight (approx.)	8 Kg.		
Measurement Capability	<b>Thermocouples</b> : ISA Types J, K, R, S, N <b>mA</b> : 0 to 25 mA <b>Volt</b> : 0 to 10 V	<b>RTD</b> : Pt100 IEC Std. <b>mV</b> : 0 to 100 / 1000 mV <b>Resistance</b> : 0 to 500 Ω / 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.
Ω	0 to 500	0.01	±0.05% F.S.
KΩ	0 to 3.5	0.0001	±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.
RTD Pt100	-100 to 800	0.1	±0.05% F.S.

#### STANDARD DELIVERY

- Basic Instrument
- Test Leads
- Mains Cable
- Insertion Tubes (to suit 1/4" & 1/2" probes)
- Tool for Insertion Tubes
- Spare Fuses
- RS-232 Computer Interface
- "MTCCal" Calibration Software
- Traceable Calibration Certificate
- Instruction Manual
- Carrying Case

#### OPTIONALS

- Additional Thermowells / Insertion Tubes (to choose from) :  
Single hole standard sizes to suit :  
1/8", 1/4", 3/8", 1/2", 3/4", 7/8" & 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 17, 19 & 21 mm probes  
Multihole (Typical) : (1x6 + 1x8), (3x6), (1x10 + 1x4) mm
- 115 VAC, 60 Hz Power Supply
- Calibration Certificate from NABL Accredited – as per ISO/IEC 17025:2005 Laboratory

Manufactured by

**Nagman Instruments & Electronics (P) Ltd.**

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