Metrological Dry Block Sub-Zero Temperature Calibrator Portable/Benchtop

Metcal 40 Lab Standard

Precision Dry Block Calibrator with Multihole Interchangeable Thermowells

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

Measuring Accuracy: ±0.025% of rdg.

High Accuracy, Resolution & Stability with Measurement Capability for mV / V / mA, Resistance TC (ISA Types: J, K, R, S, N, B, T), RTD (Pt100, Pt200, Pt500, Pt1000: IEC Standard) Signals

SALIENT FEATURES

Advanced – Micro-controller based Technology
Heavy Duty Portable / Bench-top Model
High Accuracy, Resolution & Stability
Large Graphic Display (Multi-information Display)
Measurement Capability for TC, RTD, mV / mA / V & Resistance Signals
Touch Membrane Keypad
Switch Test Contact Measurement
Multi-hole Thermowell Inserts
Computer Interface & Calibration Software
Count down timer (Shows when unit is stable)
Stability Indicator



SPECIFICATIONS

Range	-10°C to 120°C				
Resolution	0.01°C				
Accuracy	±0.2°C				
Stability	±0.02°C				
Stabilisation Time	7 Minutes				
Temperature Readout	°C / °F Selectable				
Axial Uniformity (40 mm)	±0.2°C				
Radial Uniformity	±0.02°C				
Well Diameter	30 mm				
Immersion Depth	150 mm				
Heating Time (Amb. to 120°C)	10 Minutes (approx.)				
Cooling Time (Amb. to -10°C)	15 Minutes (approx.)				
Switch Test facility	Provided				
Interchangeable Thermowells	Multihole to suit 2 x ¼" & 1 x ½" Probes. Other Sizes available as optional				
Housing	Bench-top				
Power Supply	230 VAC, 50 Hz, 140 W				
Instrument Dimensions (L x D x H)	160 x 365 x 450 mm				
Instrument Weight (approx.)	9 Kg.				
Measurement Capability	Thermocouples	ISA Types J, K, R, S, N, B, T	RTD	Pt100, Pt200, Pt500, Pt1000	
	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

Туре	Range	Resolution	Accuracy (% of reading)
mV (Low)	0 to 100	0.001	±(0.025%+2μV)
mV (High)	0 to 1000	0.01	±(0.025%+10μV)
Volts	0 to 10	0.0001	±(0.025%+0.08mV)
mA	0 to 25	0.0001	±(0.025%+0.4μA)
Ohms	0 to 500	0.001	±(0.025%+12mΩ)
KOhms	0 to 3.5	0.00001	±(0.025%+120mΩ)
RTD Pt100	-100 to 800	0.01	±(0.025%+0.1°C)
RTD Pt200	-100 to 600	0.01	±(0.025%+0.05°C)
RTD Pt500	-100 to 530	0.01	±(0.025%+0.1°C)
RTD Pt1000	-100 to 650	0.01	±(0.025%+0.1°C)

Туре	Range	Resolution	Accuracy (% of reading)
TC Type J	-100 to 1200	0.1	±(0.025%+0.1°C)
TC Type K	-60 to 1260	0.1	±(0.025%+0.1°C)
TC Type R	150 to 1700	0.1	±(0.025%+0.2°C)
TC Type S	170 to 1700	0.1	±(0.025%+0.2°C)
TC Type N	0 to 1300	0.1	±(0.025%+0.1°C)
TC Type B	920 to 1820	0.1	±(0.025%+0.01°C)
TC Type T	-100 to 400	0.1	±(0.025%+0.1°C)

STANDARD INCLUSIONS

- Basic Instrument
- Test Leads
- Mains Cable
- Multihole Insertion Tubes (to suit 2 x ¼" & 1 x ½" probes)
- Tool for Insertion Tubes
- Spare Fuses
- Computer Interface & "METCAL" Calibration Software
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards
- Instruction Manual
- Carrying Case

OPTIONAL (ADD-ON) ITEMS

- Additional Thermowells / Insertion Tubes & Multihole Consult us
- Power Supply 110 V AC, 60 Hz

Manufactured by



NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED

AN ISO 9001:2015 CERTIFIED COMPANY

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