Dry Block Temperature Calibrator Portable/Benchtop

NICAL Series

ortable/ belieftop

Precision Dry Block Calibrator with Multihole InterchangeableThermowells

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

Covering Wide Temperature Ranges : -30°C to 1200°C (NICAL 50 / 650 / 1200)

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

Full color display makes user easy to read.

The main temperature indications are SET, READ, UUT (Unit Under Test), Stability Status etc.

Inbuilt Readout for PRT

SALIENT FEATURES

Informative Color Display with feather touch
Heavy Duty Portable / Bench-top Model
Rugged Field Use & for Calibration at Site
Auto-tune PID Control
Stability Indicator
Switch Test facility
Fast and Reliable
Improved Accuracy, Resolution & Stability
Interchangeable Thermowell Inserts, Single / Multihole



SPECIFICATIONS

MODEL	NICAL 50	NICAL 650	NICAL 1200
Operating Range	-30°C to 140°C	50°C to 650°C	150°C to 1200°C
Resolution	0.01°C	0.01°C	0.1°C
Accuracy	± 0.2°C	± 0.4°C	± 2°C
Stability	± 0.02°C	± 0.04°C	± 0.2°C
Radial Uniformity	± 0.02°C	± 0.04°C	± 0.2°C
Axial uniformity	± 0.2°C (40 mm)	± 0.4°C(40 mm)	± 0.6°C (20 mm)
Heating Time	33 to 140°C 20 min	50 to 650°C 30min	200 to1200°C1.5h
Cooling Time	33 to-30°C 25 min	650 to 100°C75min	1200 to 200°C3h
Time to Stability (typical)	7 min	15 min	15 min
Well Diameter x Depth	Ø30mm x 150mm	Ø30mm x 150mm	Ø30mm x 105 mm
Weight	9 Kg	11 Kg	12.6 Kg
Size (L x D x H)	160 x 365 x 450 mm		
Computer Interface	USB Interface		
Mains Power	230V AC 50HZ - Optional 115V AC , 60HZ		

(P.T.O.)

MEASUREMENT: RANGE, RESOLUTION & ACCURACY

Туре	Range	Resolution	Accuracy (% of reading)
mV (Low)	0 to 200	0.001	±(0.025%+2μV)
mV (High)	0 to 2000	0.01	±(0.025%+10μV)
Volts	0 to 20	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 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%+0.15°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%+0.2°C)
TC Type T	0 to 400	0.1	±(0.025%+0.1°C)

CALIBRATION SOFTWARE

- The NICAL Series Dry Block Calibrator is supplied with Nagman calibration software NICal
- All calibrations can be documented with a certificate, given that the NICAL Series Dry block Calibrator is controlled from a PC.
- Auto calibration
- Semi-automatic / Manual
- When the calibrator has reached the desired temperature and stability it will prompt you to type in the UUT temperature.

Nagman® RTD

STANDARD INCLUSIONS

- **Basic Instrument**
- **Test Leads**
- Mains Cable
- Multi hole Insertion Tubes (to suit 2 x 6 mm & 1 x 8 mm probes)
- **Tool for Insertion Tubes**
- **Spare Fuses**

- "NICAL" 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

- Additional Thermo wells/Insertion Tubes & Multi hole Contact us
- Reference Indicator (Accuracy ±0.015% Rdg.) & Reference Sensor Contact us

Manufactured by

NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED AN ISO 9001:2015 CERTIFIED COMPANY

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