

Среднетемпературные сухоблочные калибраторы NICAL, H, Metcal, МТС, ЕТС

Технические характеристики

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Dry Block Temperature Calibrator

Portable/Benchtop

NICAL Series

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 Applications

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

Measuring Accuracy : $\pm 0.025\%$ 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	$\pm 0.2^\circ\text{C}$	$\pm 0.4^\circ\text{C}$	$\pm 2^\circ\text{C}$
Stability	$\pm 0.02^\circ\text{C}$	$\pm 0.04^\circ\text{C}$	$\pm 0.2^\circ\text{C}$
Radial Uniformity	$\pm 0.02^\circ\text{C}$	$\pm 0.04^\circ\text{C}$	$\pm 0.2^\circ\text{C}$
Axial uniformity	$\pm 0.2^\circ\text{C}$ (40 mm)	$\pm 0.4^\circ\text{C}$ (40 mm)	$\pm 0.6^\circ\text{C}$ (20 mm)
Heating Time	33 to 140°C -- 20 min	50 to 650°C---- 30min	200 to 1200°C----1.5h
Cooling Time	33 to -30°C -- 25 min	650 to 100°C----75min	1200 to 200°C----3h
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.)

Technical Datasheet

MEASUREMENT : RANGE, RESOLUTION & ACCURACY

Type	Range	Resolution	Accuracy (% of reading)
mV (Low)	0 to 200	0.001	$\pm(0.025\%+2\mu\text{V})$
mV (High)	0 to 2000	0.01	$\pm(0.025\%+10\mu\text{V})$
Volts	0 to 20	0.0001	$\pm(0.025\%+0.08\text{mV})$
mA	0 to 25	0.0001	$\pm(0.025\%+0.4\mu\text{A})$
Ohms	0 to 500	0.001	$\pm(0.025\%+12\text{m}\Omega)$
KOhms	0 to 5	0.00001	$\pm(0.025\%+120\text{m}\Omega)$
RTD Pt100	-100 to 800	0.01	$\pm(0.025\%+0.1^\circ\text{C})$
RTD Pt200	-100 to 600	0.01	$\pm(0.025\%+0.15^\circ\text{C})$
RTD Pt500	-100 to 530	0.01	$\pm(0.025\%+0.1^\circ\text{C})$
RTD Pt1000	-100 to 650	0.01	$\pm(0.025\%+0.1^\circ\text{C})$

Type	Range	Resolution	Accuracy (% of reading)
TC Type J	-100 to 1200	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type K	-60 to 1260	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type R	150 to 1700	0.1	$\pm(0.025\%+0.2^\circ\text{C})$
TC Type S	170 to 1700	0.1	$\pm(0.025\%+0.2^\circ\text{C})$
TC Type N	0 to 1300	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type B	920 to 1820	0.1	$\pm(0.025\%+0.2^\circ\text{C})$
TC Type T	0 to 400	0.1	$\pm(0.025\%+0.1^\circ\text{C})$

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.



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 $\pm 0.015\%$ Rdg.) & Reference Sensor - Contact us

Medium Temperature Dry Block Calibrator

Portable/Benchtop

800-H

Heavy Duty

Heavy Duty Models with an array of Interchangeable/Multi-hole Thermowells

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

Meets the requirements of "Safety of Life at Sea" (SOLAS IX Maintenance Regulations) & "International Safety Management" (ISM)

SALIENT FEATURES

Heavy Duty Portable / Bench-top Model
Rugged Field Use & for Calibration at Site
Auto-tune PID Control
Switch Test facility
Fast and Reliable
Improved Accuracy, Resolution & Stability
Interchangeable Thermowell Inserts, Single / Multi-hole
Meets CE Norms



SPECIFICATIONS

Range	50°C to 800°C
Resolution	0.1°C
Accuracy	Upto 600°C $\pm 1.5^{\circ}\text{C}$; Above 600°C $\pm 2.2^{\circ}\text{C}$
Stability	$\pm 0.3^{\circ}\text{C}$
Stabilisation Time	25 Minutes
Well Diameter	30 mm
Immersion Depth	150 mm
Heating Time (Ambient to max.) (approx.)	30 Minutes (approx.)
Cooling Time Max. (to 100°C) (approx.)	75 Minutes (approx.)
Interchangeable Thermowells	Multi-hole to suit 2 x $\frac{1}{4}$ " & 1 x $\frac{1}{2}$ " Probes. Other Sizes available as optional.
Switch Test facility/Supply	Provided
Power Supply/Consumption	230V AC/50 Hz/1600 W
Instrument Dimensions (L x D x H)	160 x 330 x 350 mm
Instrument Weight	14 Kg.

STANDARD INCLUSIONS

- Basic Instrument
- Test Leads
- Mains Cable
- Multi-hole Insert to suit 2x $\frac{1}{4}$ " + 1x $\frac{1}{2}$ " Probes
- Tool for Insertion Tubes
- Spare Fuses
- Traceable Calibration Certificate
- Instruction Manual
- Carrying Case

OPTIONAL (ADD-ON) ITEMS

- Computer Interface
- "Caltemp" Calibration Software
- Additional Thermowells / Insertion Tubes (to choose from) Multi-hole (Typical) : (1x6 + 1x8) or (3x6) or (1x10 + 1x4) mm
- Dual Voltage selection (110V AC & 230V AC)
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Metrological Dry Block Medium Temperature Calibrator

Portable/Benchtop

Metcal 650

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 Applications

Measuring Accuracy : $\pm 0.025\%$ 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
128 x 64 Graphic 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	50°C to 650°C			
Resolution	0.01°C			
Accuracy	$\pm 0.4^\circ\text{C}$			
Stability	$\pm 0.04^\circ\text{C}$			
Stabilisation Time	15 Minutes			
Temperature Readout	°C / °F Selectable			
Radial Uniformity	$\pm 0.04^\circ\text{C}$			
Well Diameter	30 mm			
Immersion Depth	150 mm			
Heating Time (50 to 650°C)	36 Minutes (approx.)			
Cooling Time (650 to 100°C)	75 Minutes (approx.)			
Switch Test facility	Provided			
Interchangeable Thermowells	Multihole to suit 2 x ¼" & 1 x ½" Probes. Other Sizes available as optional			
Housing / Mounting	Bench-top			
Power Supply	230V AC, 50 Hz			
Instrument Dimensions (L x D x H)	160 x 365 x 450 mm			
Instrument Weight (approx.)	11 Kg.			
Measurement Capability	Thermocouples	ISA Types J, K, R, S, N, B, T	RTD	Pt100, 200, 500, 1000 IEC Std.
	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

<i>Type</i>	<i>Range</i>	<i>Resolution</i>	<i>Accuracy (% of reading)</i>
mV (Low)	0 to 100	0.001	$\pm(0.025\%+2\mu\text{V})$
mV (High)	0 to 1000	0.01	$\pm(0.025\%+10\mu\text{V})$
Volts	0 to 10	0.0001	$\pm(0.025\%+0.08\text{mV})$
mA	0 to 25	0.0001	$\pm(0.025\%+0.4\mu\text{A})$
Ohms	0 to 500	0.001	$\pm(0.025\%+12\text{m}\Omega)$
KOhms	0 to 3.5	0.00001	$\pm(0.025\%+120\text{m}\Omega)$
RTD Pt100	-100 to 800	0.01	$\pm(0.025\%+0.1^\circ\text{C})$
RTD Pt200	-100 to 600	0.01	$\pm(0.025\%+0.05^\circ\text{C})$
RTD Pt500	-100 to 530	0.01	$\pm(0.025\%+0.1^\circ\text{C})$
RTD Pt1000	-100 to 650	0.01	$\pm(0.025\%+0.1^\circ\text{C})$

<i>Type</i>	<i>Range</i>	<i>Resolution</i>	<i>Accuracy (% of reading)</i>
TC Type J	-100 to 1200	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type K	-60 to 1260	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type R	150 to 1700	0.1	$\pm(0.025\%+0.2^\circ\text{C})$
TC Type S	170 to 1700	0.1	$\pm(0.025\%+0.2^\circ\text{C})$
TC Type N	0 to 1300	0.1	$\pm(0.025\%+0.1^\circ\text{C})$
TC Type B	920 to 1820	0.1	$\pm(0.025\%+0.01^\circ\text{C})$
TC Type T	-100 to 400	0.1	$\pm(0.025\%+0.1^\circ\text{C})$

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 - Contact us
- Power Supply 110V AC, 60 Hz

Universal Dry Block Medium Temperature Calibrator

Portable/Benchtop

MTC 650

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 mV / V / mA, Resistance TC (ISA Types J, K, R, S, N, B, T), RTD (Pt100:IEC Standard) 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 TC, RTD, mV/mA/V & Resistance Signals
Touch Membrane Keypad
Switch Test Contact Measurement
Interchangeable Single hole Thermowell Inserts
Computer Interface & Calibration Software



SPECIFICATIONS

Range	50°C to 650°C			
Resolution	0.1°C			
Accuracy	±0.6°C			
Stability	±0.05°C			
Stabilisation Time	15 to 20 Minutes			
Temperature Readout	°C / °F Selectable			
Well Diameter	30 mm			
Immersion Depth	110 mm			
Heating Time (Ambient to max.)	20 Minutes approx.			
Cooling Time max. (to 100°C)	42 Minutes			
Switch Test facility	Provided			
Interchangeable Thermowells	Multihole to suit 2 x ¼" & 1 x ½" Probes. Other Sizes available as optional			
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.)	11 Kg.			
Measurement Capability	Thermocouples	ISA Types J, K, R, S, N, B, T	RTD	Pt100 IEC Std.
	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

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.

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
- Insertion Tubes (2x1/4" & 1x1/2" probes)
- Tool for Insertion Tubes
- Spare Fuses
- Computer Interface
- "MTCCal" Calibration Software
- Traceable Calibration Certificate
- Instruction Manual
- Carrying Case

OPTIONAL (ADD-ON) ITEMS

- Additional Thermowells / Insertion Tubes (to choose from) :
Single hole standard sizes to suit 1/8", 1/4", 3/8", 1/2", 3/4" & 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 17, 19 & 21 mm probes
Multihole (Typical) : (1x6 + 1x8) or (3x6) or (1x10 + 1x4) mm
- Power Supply 110V AC, 60 Hz
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Medium Temperature Dry Block Calibrator

Portable/Benchtop

650-H/650-H2

Heavy Duty

Heavy Duty Models with an array of Interchangeable/Multihole Thermowells

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

Meets the requirements of "Safety of Life at Sea" (SOLAS IX Maintenance Regulations) & "International Safety Management" (ISM)

SALIENT FEATURES

Heavy Duty Portable / Bench-top Model
Rugged Field Use & for Calibration at Site
Auto-tune PID Control
Switch Test facility
Fast and Reliable
Improved Accuracy, Resolution & Stability
Interchangeable Thermowell Inserts, Single / Multihole
Meets CE Norms



SPECIFICATIONS

Range	20°C above Ambient to 650°C
Resolution	0.1°C
Accuracy	±1.2°C
Stability	±0.3°C (650-H); ±0.5°C (650-H2)
Stabilisation Time	15 Minutes
Well Diameter	30 mm
Immersion Depth	110 mm (650-H); 190 mm (650-H2)
Heating Time (Ambient to max.) (approx.)	20 Minutes (650-H); 40 Minutes (650-H2) (approx.)
Cooling Time Max. (to 100°C) (approx.)	60 Minutes (650-H); 100 Minutes (650-H2) (approx.)
Multihole Thermowell	Multihole to suit 2 x ¼" & 1 x ½" Probes. Other Sizes available as optional
Switch Test facility/Supply	Provided / 5V DC (open)
Power Supply/Consumption	110 & 230V AC / 50 Hz / 1200 W / 1400 W (650-H2)
Instrument Dimensions (L x D x H)	160 x 330 x 350 mm (650-H); 160 x 365 x 450 mm (650-H2)
Instrument Weight	8.5 Kg. (650-H) 11 Kg. (650H-2)

STANDARD INCLUSIONS

- Basic Instrument
- Test Leads
- Mains Cable
- Insertion Tubes (to suit 2 x ¼" & 1 x ½" probes)
- Tool for Insertion Tubes
- Spare Fuses
- Traceable Calibration Certificate
- Instruction Manual
- Carrying Case

OPTIONAL (ADD-ON) ITEMS

- Computer Interface
- "Caltemp" Calibration Software
- Additional Thermowells / Insertion Tubes (to choose from) :
Single hole standard sizes to suit : 1/8", 1/4", 3/8", 1/2", 3/4" & 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 17, 19 & 21 mm probes
Multihole (Typical) : (1x6 + 1x8) or (3x6) or (1x10 + 1x4) mm
- Power Supply 110V AC, 60 Hz
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Medium Temperature Dry Block Calibrator

Portable/Benchtop

ETC 600

Heavy Duty

Heavy Duty Models with an array of Interchangeable/Multihole Thermowells

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

Meets the requirements of "Safety of Life at Sea" (SOLAS IX Maintenance Regulations) & "International Safety Management" (ISM)

SALIENT FEATURES

Cost Effective – Economy Model
Calibration at Site, Fast & Reliable
PID Temperature Control
Switch Test facility
Interchangeable Thermowell Inserts, Single / Multihole



SPECIFICATIONS

Range	50°C to 600°C
Resolution	0.1°C
Display	Digital Display, 4 Digit LED
Accuracy	±1.5°C
Stability	±0.4°C
Temperature Readout	°C / °F Selectable
Well Diameter	30 mm
Immersion Depth	110 mm
Heating Time (Ambient to max.)	18 Minutes approx.
Cooling Time (to 100°C)	60 Minutes approx.
Multihole Thermowell	Multihole to suit 2 x ¼" & 1 x ½" Probes. Other Sizes available as optional
Switch Test Facility / Supply	Provided / 7 VDC Nominal
Power Supply / Consumption	100 ~ 230V AC; 50/60 Hz; 1200 Watts
Instrument Dimensions (L x W x H)	270 x 124 x 240 mm
Instrument Weight	7 Kgs.

STANDARD INCLUSIONS

- Basic Instrument
- Test Leads
- Mains Cable
- Insertion Tubes (2x¼" & 1x½" probes)
- Tool for Insertion Tubes
- Spare Fuses
- Traceable Calibration Certificate
- Instruction Manual
- Carrying Case

OPTIONAL (ADD-ON) ITEMS

- Computer Interface
- "Caltemp" Calibration Software
- Additional Thermowells / Insertion Tubes (to choose from) :
Single hole standard sizes to suit : 1/8", 1/4", 3/8", 1/2", 3/4" & 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 17, 19 & 21 mm probes
Multihole (Typical) : (1x6 + 1x8) or (3x4) or (1x10 + 1x4) mm
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards
- Dual Voltage Selection

По вопросам продаж и поддержки обращайтесь:

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Астрахань (8512)99-46-04	Киров (8332)68-02-04	Пенза (8412)22-31-16	Тольятти (8482)63-91-07
Барнаул (3852)73-04-60	Коломна (4966)23-41-49	Петрозаводск (8142)55-98-37	Томск (3822)98-41-53
Белгород (4722)40-23-64	Кострома (4942)77-07-48	Псков (8112)59-10-37	Тула (4872)33-79-87
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