

Сухоблочные калибраторы для минусовой температуры R, METCAL, МТС

Технические характеристики

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Sub-Zero Temperature Dry Block Calibrator

Portable

R40
Heavy Duty

Ideal for Field & Lab Calibration purpose.

SALIENT FEATURES

Portable
Cost Effective
Fast heating & Cooling
PID Temperature Control
Switch Test Facility

SPECIFICATIONS

Range	-10°C to 123°C
Resolution	0.1 °C
Accuracy	±0.5 °C
Stability	±0.1 °C
Stabilization Time	15 Minutes
Temperature Readout	°C / °F Selectable
Well Diameter	19 mm
Immersion Depth	100 mm
Heating Time	10 Minutes (from Ambient to max.) (approx.)
Cooling Time	20 Minutes (from Ambient to min.) (approx.)
Interchangeable Thermowells	Single Hole to suit 1/4" & 1/2" Probes - Standard
Switch Test Facility / Supply	Provided / 5V DC (open)
Power Supply	230 V AC / 50 Hz



STANDARD INCLUSIONS

- Basic Instrument
- Cable for Thermostat Switch Test
- Mains Cable
- Insertion Tube (to suit 1/4" & 1/2" probe)
- Tool for Insertion Tube
- 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, 5, 6, 7, 8, 10, 12, 13, 15 & 17 mm probes
Multihole (Typical) : (1x6 + 1x8), (3x6), (1x10 + 1x4) mm
- Power Supply 110 V AC, 60 Hz
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Sub-Zero Temperature Dry Block Calibrator

Portable

R40 Plus
Heavy Duty

Ideal for Field & Lab Calibration purpose.

SALIENT FEATURES

Portable
Cost Effective
Fast heating & Cooling
PID Temperature Control
Switch Test Facility

SPECIFICATIONS

Range	-30°C to 120°C (@ 21°C)
Resolution	0.1°C
Accuracy	±0.5°C
Stability	±0.1°C
Stabilization Time	15 Minutes
Temperature Readout	°C / °F Selectable
Well Diameter	30 mm
Immersion Depth	110 mm
Heating Time	10 Minutes (from Ambient to max.) (approx.)
Cooling Time	30 Minutes (from Ambient to min.) (approx.)
Interchangeable Thermo wells	Multihole : 2 x ¼" & 1 x ½" Standard
Switch Test Facility / Supply	Provided / 5V DC (open)
Power Supply / Consumption	230 V AC, 50 Hz, 140W

STANDARD INCLUSIONS

- Basic Instrument
- Cable for Thermostat Switch Test
- Mains Cable
- Insertion Tube - Multihole : 2 x ¼" & 1 x ½"
- Tool for Insertion Tube
- Spare Fuses
- Traceable Calibration certificate
- Instruction Manual
- Carrying Case

OPTIONAL (ADD-ON) ITEMS

- Computer Interface
- "Caltemp" Calibration Software
- Consult us for Multihole (Typical) Probes
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards
- Power Supply 110V AC, 60 Hz



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 : $\pm 0.025\%$ 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
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	$\pm 0.2^\circ\text{C}$			
Stability	$\pm 0.02^\circ\text{C}$			
Stabilisation Time	7 Minutes			
Temperature Readout	°C / °F Selectable			
Axial Uniformity (40 mm)	$\pm 0.2^\circ\text{C}$			
Radial Uniformity	$\pm 0.02^\circ\text{C}$			
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

<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 – Consult us
- Power Supply 110 V AC, 60 Hz

Metrological Dry Block Sub-Zero Temperature Calibrator

Portable/Benchtop

Metcal 40 **Plus**
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 : $\pm 0.025\%$ 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
- 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	-25°C to 120°C (@ 21°C $\pm 2^\circ\text{C}$ Ambient)			
Resolution	0.01°C			
Accuracy	$\pm 0.2^\circ\text{C}$			
Stability	$\pm 0.02^\circ\text{C}$			
Stabilisation Time	7 Minutes			
Temperature Readout	°C / °F Selectable			
Axial Uniformity (40 mm)	$\pm 0.2^\circ\text{C}$			
Radial Uniformity	$\pm 0.02^\circ\text{C}$			
Well Diameter	30 mm			
Immersion Depth	150 mm			
Heating Time (Amb. to 120°C)	10 Minutes approx.			
Cooling Time (Amb. to -25°C)	30 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	230V AC, 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

Type	Range	Resolution	Accuracy (% of reading)
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	$\pm(0.025\%+0.1^\circ\text{C})$

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	$\pm(0.025\%+0.01^\circ\text{C})$
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 – Consult us

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	-15°C to 123°C @23° ±2°C Ambient	
Resolution	0.1°C	
Accuracy	±0.3°C	
Stability	±0.1°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 (Ambient to -15°C)	25 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

Universal Dry Block Sub-Zero Temperature Calibrator

Portable/Benchtop

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

MTC 40 Plus
Measurement Capability



SPECIFICATIONS

Range	-30°C to 120°C (@ 21°C ±2°C Ambient)	
Resolution	0.1°C	
Accuracy	±0.3°C	
Stability	±0.1°C	
Stabilisation Time	7 Minutes	
Temperature Readout	°C / °F Selectable	
Well Diameter	30 mm	
Immersion Depth	110 mm	
Heating Time (Ambient to max.)	14 Minutes (approx.)	
Cooling Time (Ambient to -30°C)	30 Minutes (approx.)	
Switch Test facility	Provided	
Interchangeable Thermowells	Multihole : 2 x ¼" & 1 x ½" Standard	
Housing / Mounting	Bench-top	
Power Supply / Consumption	230V AC, 50 Hz, 140 W	
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 : Multihole : 2 x ¼" & 1 x ½"
- Tool for Insertion Tubes
- Computer Interface
- "MTCCal" Calibration Software
- Traceable Calibration Certificate
- Carrying Case
- Instruction Manual

OPTIONAL (ADD-ON) ITEMS

- Consult us for Multihole (Typical) Probes
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards
- Power Supply 110V AC, 60 Hz

По вопросам продаж и поддержки обращайтесь:

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