Dry Block Temperature Calibrator

UTC Series

MYKO Electronics Pvt. Ltd.

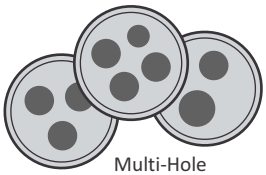
Instrument

Application

Ideal for calibration of thermocouples, RTDs, gauges, thermometers, switches, transmitters, etc.

FEATURES

Dry Block . Graphical Display . Microcontroller Based . Feather Touch Key Pad . Fast Heating & Cooling . Reads Set temperature and device input simultaneously . Good Stability . Loop Power Supply for Transmitters . Facility to check Temperature Switch Test . Measurement Facility for RTD, Thermocouple, mV, V, mA, Ohms . Internal Cold Junction Compensation



Multi-Hole Insertion Tube

Carrying Case

Technical Specification

Model	Range	Accuracy[1]	Bath Stability	Stabilisation Time	Heating Time	Cooling Time
350 UTC	50 to 350°C	±0.4°C	±0.05°C	15 Min.	50 to 350°C	350 to 100°C
					18 to 20 Min.	30 to 35 Min.
650 UTC	50 to 650°C	±0.6°C	±0.05°C	20 Min.	50 to 650°C	650 to 100°C
					30 to 32 Min.	40 to 45 Min.

Resolution	**0.1°C**
Units	**°C / °F Switchable**
Display	**Graphical with LED Backlight**
Power Supply	**230V AC ± 5% / 50Hz, 1.2 KW for 650UTC & 500 W for 350UTC**
Transmitter Supply	**24V DC ± 10% (Loop Powered)**
Block Diameter	**25.4 mm**
Block Depth	**120 mm**
Insertion Tube Depth	**110 mm**
Temperature Setting	**Digital Display through feather touch keypad**
Display Stability	**±0.2°C**
Radial Uniformity	**±0.3°C with similar probes**
Fixed Steps for temp. setting in ℃	**50, 150, 300, 450, 600**
Switch Test	**Continuity check with OPEN / CLOSE indication**

Measurement Specification

Parameter	Range	Resolution	Accuracy[1]
mA	0 to 25 mA	0.001 mA	±0.025% of Reading + 10 µA
mV	0 to 1000.0 mV	0.01 mV	±0.025% of Reading + 0.25 mV
Volts	0 to 10.000 V	0.001 V	±0.025% of Reading + 3 mV
Ohms	0 to 400 Ohms	0.01 Ohms	±0.025% of Reading + 0.1 Ohm
RTD (Pt 100)[3]	-200 to 850℃	0.1℃	±0.025% of Reading + 0.3℃

Thermocouple[2] Types

T	-200 to 400°C	0.1°C	±0.025 % of Reading + 1°C
J	-200 to 1200°C	0.1°C	±0.025 % of Reading + 1°C
K	-200 to 1372°C	0.1°C	±0.025 % of Reading + 1°C
N	-200 to 1300°C	0.1°C	±0.025 % of Reading + 1°C
R	300 to 1760°C	1°C	±0.025 % of Reading + 2°C
S	300 to 1760°C	1°C	±0.025 % of Reading + 2°C

Note 1: Accuracy specifications include effect of non-linearity, hysteresis and repeatability at23±5°C
Note 2: Thermocouple measurement accuracy does not include CJC sensor accuracy (CJC error ±1.0°C)
Note 3: Measurement by 3 wire at an excitation current of 1mA

Standard Delivery

1. Instrument : 1 no.
2. Power Cable : 1 no.
3. Carrying Case : 1 no.
4. Test Lead (2 wire) : 1 no.
5. Test Lead (3 wire) : 1 no.
6. Insertion Tube :
   Dual Hole - 1 x 1/4" + 1 x 12.5 mm,
   Dual Hole - 1 x 1/4" + 1 x 8.2 mm
7. Insertion Tool : 1 no.
8. Spare fuses : 6A - 2 nos.
9. User Manual : 1 no.
10. Traceable Calibration Certificate

Optional

- RS232 with RnD Cal-T Software
- Insertion Tube of size: 1 x 1/4" + 1 x 10 mm, 2 x 1/4" + 2 x 5 mm
- 110 VAC Power Supply
- Accredited (NABL) Calibration Certificate as per ISO/IEC 17025:2005 Standard

Current terminal input protection: Fuse 100mA / 250V
Safety protection: Thermal cutout for bath temperature above 660°C
System Fuse: 6 A 250 V
Size: 155 mm (W) x 240 mm (H) x 350 mm (D)
Weight: 8 kgs.

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