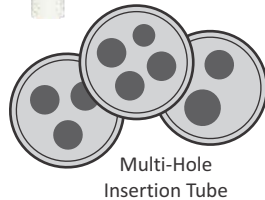




Dry Block Temperature Calibrator TC Series



Carrying Case

Multi-Hole
Insertion Tube

Application

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

FEATURES

Dry Block . Graphical Display . Micro Controller Based . Feather-touch key pad . Fast Heating & Cooling . Good Stability . Power Supply for Transmitters . Facility to check Temperature Switch Test . Measurement facility for RTD 3 wire

Technical Specification

Model	Range	Accuracy ¹	Bath Stability	Stabilisation Time	Heating Time	Cooling Time
350 TC	50 to 350°C	±0.5°C	±0.05°C	15 Min.	50 to 350°C	350 to 100°C
					18 to 20 Min.	30 to 35 Min.
650 TC	50 to 650°C	±0.7°C	±0.05°C	20 Min.	50 to 650°C	650 to 100°C
					30 to 32 Min.	40 to 45 Min.
350 DTC	50 to 350°C	±0.7°C	±0.1°C	18 Min.	50 to 350°C	350 to 100°C
					25 to 30 Min.	55 to 60 Min.
650 DTC	50 to 650°C	±1.0°C	±0.1°C	25 Min.	50 to 650°C	650 to 100°C
					35 to 40 Min.	115 to 120 Min.
350 TC SPL	50 to 350°C	±0.6°C	±0.1°C	18 Min.	50 to 350°C	350 to 100°C
					20 to 25 Min.	35 to 40 Min.
650 TC SPL	50 to 650°C	±0.8°C	±0.1°C	20 Min.	50 to 650°C	650 to 100°C
					40 to 45 Min.	60 to 65 Min.

Block Dimension

Model	350 TC	650 TC	350 DTC	650 DTC	350 TC SPL	650 TC SPL
Block Diameter	25.4 mm	25.4 mm	25.4 mm	25.4 mm	36.0 mm	36.0 mm
Block Depth	120 mm	120 mm	190 mm	190 mm	120 mm	120 mm
Insertion Tube Depth	110 mm	110 mm	180 mm	180 mm	110 mm	110 mm

Physical Dimension and Weight

Model	350 TC	650 TC	350 DTC	650 DTC	350 TC SPL	650 TC SPL
Instrument Dimension WxHxD in mm	155x240x350	155x240x350	155x300x350	155x300x350	155x240x350	155x240x350
Instrument Weight in Kgs.	6.5	8	9	11.5	7	9.5

Resolution	0.1°C
Units	°C / °F Switchable
Display	Graphical with LED Backlight
Power Supply	230V AC ± 5% / 50Hz, 1.2 KW for 650TC & 500 W for 350TC
Transmitter Supply	24V DC (Loop Powered)
Temperature Setting	Digital Display through feather touch keypad
Display Stability	±0.2°C
Radial Uniformity	±0.3°C with similar probes
Switch Test	Continuity check with OPEN / CLOSE indication

Measurement Specification

Parameter	Range	Resolution	Accuracy ¹
mA	0 to 25	0.001 (mA)	±0.025% of Reading + 10µA
V	0 to 10	0.001 (V)	±0.025% of Reading + 3mV
RTD °C (Pt 100) ²	-200 to 850	0.1 (°C)	±0.025% of Reading + 0.3°C

Note 1: Accuracy specifications include effect of non-linearity, hysteresis and repeatability at 23±5°C.
Note 2: Measurement by 3 wire at an excitation current of 1mA.

Standard Delivery

- Instrument : 1 no.
- Power Cable : 1 no.
- Carrying Case : 1 no.
- Test Lead (2 wire):1 no.
- Test Lead (3 wire):1 no.
- Insertion Tube :
Dual Hole - 1 x 1/4" + 1 x 12.5 mm,
Dual Hole - 1 x 1/4" + 1 x 8.2 mm,
or (2 x 1/4" + 1 x 8 mm + 1 x 1/2" multi hole for SPL model)
- Insertion Tool : 1 no.
- Spare Fuses : 6A - 2 nos.
- User Manual : 1 no.
- Traceable Calibration Certificate

Optional

- RS232 with RnD Cal-T Software
- For TC & DTC Insertion Tube of size: 1 x 1/4" + 1 x 10 mm, 2 x 1/4" + 2 x 5 mm.
- For TC SPL - Multi hole Insertion tube of size: 1/4" x 7 nos. of holes, 1 x 20 mm + 1 x 8 mm + 1 x 7 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
System Fuse: 6A 250V

Manufacturer of
**TEST BENCHES
CALIBRATION INSTRUMENTS**

**ISO 9001:2008
Certified Company**

www.rndinstruments.com

Contact

5, Natesan Nagar, Alapakkam,
Chennai 600116. Tamilnadu, INDIA.
Tel.: +91-44-4283 9039 / 4284 1119
Mobile Nos.: +91-87544 78464 / 87544 68463
email: sales@rndinstruments.com
service@rndinstruments.com

ACCREDITED CALIBRATION LABORATORY

As per ISO / IEC 17025

**THERMAL
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www.calibrationlab.in