

RTC-700 A/B/C

Dry-block calibrators



- **High accuracy down to $\pm 0.11^{\circ}\text{C}$ using the external reference sensor**
- **Excellent stability to 0.008°C**
- **Wide temperature range from 33 to 700°C**
- **Improved temperature homogeneity**
- **DLC Dynamic Load Compensation**
- **Super high speed cooling**



Specifications

The RTC calibrator comes in three different models - A, B, and C.

- RTC-A reference temperature calibrator
- RTC-B reference temperature calibrator with input for reference sensor, DLC sensor and sensors-under-test
- RTC-C reference temperature calibrator with input for reference sensor and DLC sensor

The navigation is menu-driven and very logical and intuitive to use. The display shows any important information needed for the current function in use.

The communication windows pop up and are followed by discrete sound messages. The display is very bright and the main information can easily be read from a distance. The large display contains many detailed information at a glance, such as:

- Up to five temperature readings simultaneously
- Stability status
- Load compensation status
- Real time clock
- Serial number of reference sensor
- Sensor-under-test status



Temperature range

At ambient temperature 0 °C:	10 °C to 700 °C
At ambient temperature 23 °C:	33 °C to 700 °C
At ambient temperature 40 °C:	50 °C to 700 °C

Stability

At 33 to 125°C:	±0.008°C
At 125 to 425°C:	±0.015°C
At 425 to 700°C:	±0.02°C

Time to stability (approximate): 10 minutes

Axial homogeneity at 60 mm

At temperature range 33 °C to 100 °C:	0.10 °C
At temperature range 100 °C to 420°C:	0.25 °C
At temperature range 420 °C to 700 °C:	0.40 °C

Accuracy

model B+C (33 to 660°C) with external STS ref. sensor: ±0.11 °C

Heating time

33 °C to 700 °C: 45 minutes

Cooling time

700 °C to 100 °C	43 minutes
100 °C to 50 °C	17 minutes
50 °C to 33 °C	20 minutes

Immersion depth: 200 mm

Resolution (user selectable): 1 °C or 0.1°C or 0.01°C or 0.001°C

Interface: USB

Instrument weight: 11.3 Kg

Instrument dimensions (L x W x H): 362 x 171 x 421 mm