

CTC 1205 Compact Temperature Calibrator



- Temperature Range: 100 °C to 1205 °C
- Multi Sensor Calibration
- IRI Intelligent Recalibration Information
- Plug and Play reference sensors
- Broad range of inserts
- Reference sensor protection

The CTC Series portable temperature calibrator is a fast, time-saving, reliable dry block temperature calibrator designed for on-site use. The large color display is easy-to-read and provides icons and information regarding the status of the calibrator and the calibration in process. Popular functions like automatic switch test and auto stepping are available with special one-key-one-function buttons.

Speed, portability, cleanliness, and wide temperature range are all superior over liquid bath systems.



Calibration Experts

Specifications

100°C to 1205 °C / 212 to 2200°F **Temperature Range:**

±2.0 °C / ±3.6 °F Accuracy: (with internal ref. sensor) ±2.0 °C / ±3.6 °F **Accuracy:** (with external ref. sensor)

±0.1 °C / ±0.18°F Stability:

Measured after the stability indicator has been on for 10 minutes. Measuring time is 30 minutes.

Settings

Resolution 1 or 0.1 od 0.001 Units °C or °F or K

23 to 1205 °C / 73 to 2200°F **Heating Time:** 50 minutes

All specifications are given with an ambient temperature 23°C/73.4°F / ±3°C/5.9°F. Specified at 115V/230V.

Cooling Time: 1205 to 300 °C / 2200 to 672°F 45 minutes

> 300 to 50 °C / 672 to 1222°F 45 minutes

Time to Stability (typical): 15 minutes

Mains Power:

Voltage: 115 V (90-127) / 230 V (180-254)

Max. Power Consumption 650 VA

Frequency: (non US) 50 Hz ±3, 60 Hz ±3

Instrument Weight: 7,1 Kg

Instrument Dimensions (L x W x H): 248 x 148 x 390 mm

110 mm Immersion Depth: Immersion Depth incl. Insulation plug: 137 mm

Well Diameter: 27 mm Insert Dimension (diameter x length): 25 x 155 mm

Electrical: (Switch Input- mechanical contact)

Test Voltage: max. 14 VDC **Test Current:** max. 1 mA **Digital Interface** USB 2.0 Device

Environmental:

Operating Temperature: 0 to 50°C / 32 to 122°F Storage Temperature: -20 to 50°C / -4 to 122°F Humidity: 5 to 90% Rh, non-condensing

Protection Class: IP-10

External Reference Sensor: STS-TC-N 100 to 1205°C / 212 to 2200°F

Accuracy

Hysteresis (@0°C / 32°F) 0,2°C / 0,26°F

Sensing element Type TC-N

Response time

STS-1205, t0,5 (50%) 4 sec STS-1205: t0.9 (90%) 15 sec.



Dimensions

Туре	Angled
Diameter	4,5 mm
Lenath	350 mm

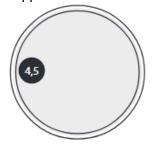
InsertsInserts for CTC-1205 are made of high temperature steel alloy. All specifications on hole sizes refer to the outer diameter of the sensor-under-test. The correct clearance size is applied in all predrilled inserts. All CTC-1205 inserts include an insulation plug

Predrilles Inserts- metric (mm)	Predrilles Inserts- imperial (in)	Undrilles Inserts
Probe Dia.	1/8 in	Without ref. hole
3 mm	3/16 in	With ref hole
4 mm	1/4 in	
5 mm	5/16 in	
6 mm	3/8 in	
7 mm	7/16 in	
8 mm	1/2 in	
9 mm		
10 mm		
11 mm		
12 mm		

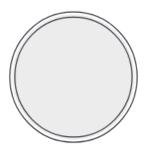
All inserts are supplied with hole for 4,5 mm reference sensor. All CTS-1205 Inserts are supplied with an insulation plug.

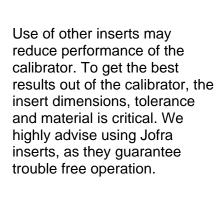


Drilled single hole with ref. hole



Undrilled



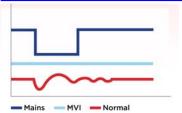




Need a customized insert?
Please contact us for more information.

undrilled with ref. hole

MVI - Improved Temperature Stability "Mains power Variance Immunity"



Unstable mains power supplies are a major contributor to on-site calibration inaccuracies. Traditional temperature calibrators often become unstable in production environments where large electrical motors, heating elements, and other devices are periodically cycled on or off. The cycling of supply power can cause the temperature regulator to perform inconsistently leading to both inaccurate readings and unstable temperatures.

This document is subject to change without notice