

Tempsens Calibration Center is an independent unit of Tempsens instruments (I) Pvt. Ltd, having laboratories at Udaipur, Vadodara & Bangalore. It is accredited for wide range of temperature calibration services.

## IN HOUSE CALIBRATION FACILITY

Quality Measured/ Instruments	Temperature Range	Calibration & Measurement Capability
Contact Type RTD, Thermocouples Thermometers	-196°C	0.05°C
	-80 to -38°C	0.03°C
	-38°C to 0°C	0.03°C
	>0°C to 140°C	0.04°C
	>140°C to 250°C	0.04°C
	>250°C to 650°C	0.12°C
	>650°C to 1200°C	1.30°C
	>1200°C to 1600°C	2.60°C
Non Contact Type Pyrometer	0°C to 250°C	1.5°C
	>250°C to 500°C	2.4°C
	>500°C to 1500°C	2.5°C
	>1500°C to 1700°C	3.2°C
	>1700°C to 2900°C	4.0°C

## ON SITE CALIBRATION FACILITY

Quality Measured/ Instruments	Temperature Range	Calibration & Measurement Capability
Contact type RTD. Thermocouples Thermometers	-25°C to 0°C	0.07°C
	>0°C to 140°C	0.04°C
	>140°C to 250°C	0.09°C
	>250°C to 650°C	0.12°C
	>650°C to 1200°C	1.30°C
Non Contact Type Pyrometer	0°C to 250°C	1.50°C
	>250°C to 500°C	2.40°C
	>500°C to 1200°C	2.5°C
Multipoint Position Calibration of Chamber, Oven, Furnaces (Thermal Mapping(TUS))	-80°C to 200°C	2.8°C
	>200°C to 1200°C	4.1°C

## PRIMARY TEMPERATURE CALIBRATION FACILITIES

Quality Measured/ Instruments	Temperature Range	Calibration & Measurement Capability
Calibration of SPRT/PRTS/ thermocouple etc.	Triple Point of Water (0.01°C)	0.0038°C
	Melting Point of Gallium (29.7646°C)	0.0065°C
	Freezing Point of Tin (231.928°C)	0.0065°C
	Freezing Point of Zinc (419.527°C)	0.0071°C
	Freezing Point of Aluminum (660.323°C)	0.0075°C
Calibration of Thermocouple at Secondary Fixed Point	Melting Point of Gold(1064.18 °C)	0.72°C
	Melting Point of Palladium(1554.8 °C)	0.83°C



**CC-2840**  
Udaipur  
Lab

**CC-2903**  
Vadodara  
Lab

**CC-2330**  
Bangalore  
Lab



Tempsens is the only private sector Laboratory in the country with accredited Fixed Point Temperature calibration Facilities. The lab has highly stable calibration furnaces, measuring instruments and accurate master sensors traceable to National and International Standards.

The calibration center functions as per ISO 17025 / NABL standards. Calibration of contact type sensors can be made in temperature range of -196°C to 1600°C and Calibration of non contact type sensors can be made in temperature range 0°C to 2900°C. Further the laboratory is accredited for onsite temperature calibration.

The lab offer both at Lab & On-Site Calibration of Furnace/Bath from -80°C to 1600°C and Black Body Calibration from 50°C to 1700°C.

Furnace/Chamber Calibration (TUS) with multiple sensors from -80°C to 1200°C is also in the scope of the lab.



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