

Laboratory

Tempsens Calibration Centre (West), A Unit of Tempsens Instruments (I) Pvt. Ltd., TF-304, Florence Classic, 10, Shree Ashapuri Society, Akota, Vadodara, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2903 (in lieu of C-1155)

Page 1 of 3

Validity

20.11.2018 to 19.11.2020

Last Amended on 03.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>THERMAL CALIBRATION</u></b>				
<b>I.</b>	<b>TEMPERATURE</b>			
1.	Temperature for Contact Type Sensor (RTD's, Thermocouples, Indicators with Sensors) <sup>§</sup>	(-) 196 °C	0.20 °C	Using Digital Multimeter & SSPRT with LN2 Apparatus by Comparison Method
		(-) 80 °C to 50 °C	0.12 °C	Using Digital Multimeter & SSPRT with Liquid Bath by Comparison Method
		50 °C to 250 °C	0.17 °C	Using Digital Multimeter & SSPRT with Liquid Bath by Comparison Method
		250 °C to 650 °C	0.20 °C	Using Digital Multimeter & SSPRT with Dry Block Furnace by Comparison Method
		650 °C to 1200 °C	2.12 °C	Using Digital Multimeter & Master T/C with Dry Block Furnace by Comparison Method
		1200 °C to 1600 °C	3.80 °C	Using Digital Multimeter & Master T/C with Dry Block Furnace by Comparison Method

Mamta Bharti  
Convenor

Avijit Das  
Program Manager

**Laboratory**

**Tempsens Calibration Centre (West), A Unit of Tempsens Instruments (I) Pvt. Ltd., TF-304, Florence Classic, 10, Shree Ashapuri Society, Akota, Vadodara, Gujarat**

**Accreditation Standard ISO/IEC 17025: 2005**

**Certificate Number**

**CC-2903** (in lieu of C-1155)

**Page**

**2 of 3**

**Validity**

**20.11.2018 to 19.11.2020**

**Last Amended on 03.12.2018**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
2.	Temperature for Non Contact Type Infrared Thermometers, Pyrometers <sup>§</sup>	50 °C to 500 °C	3.00 °C	Using Master Pyrometer with Calsys 500 BB by Comparison Method
		500 °C to 1700 °C	3.76 °C	Using Master Pyrometer with Calsys 1700 BB by Comparison Method
3.	Temperature for Contact Type Sensor (RTD's, Thermocouples, Indicators with Sensors) <sup>*</sup>	(-) 15 °C to 50 °C	0.12 °C	Using Digital Multimeter & SSPRT with Calsys - 15/110 Furnace by Comparison Method
		50 °C to 250 °C	0.17 °C	Using Digital Multimeter & SSPRT with Liquid Bath by Comparison Method
		250 °C to 650 °C	0.20 °C	Using Digital Multimeter & SSPRT with Dry Block Furnace by Comparison Method
		650 °C to 1200 °C	2.12 °C	Using Digital Multimeter & Master T/C with Dry Block Furnace by Comparison Method
4.	Temperature for Non Contact Type Infrared Thermometers, Pyrometers <sup>*</sup>	50 °C to 500 °C	3.00 °C	Using Master Pyrometer with Calsys 500 BB by Comparison Method
		500 °C to 1200 °C	3.76 °C	Using Master Pyrometer with Calsys 1700 BB by Comparison Method

**Mamta Bharti**  
Convenor

**Avijit Das**  
Program Manager

**Laboratory**                      **Tempsens Calibration Centre (West), A Unit of Tempsens Instruments (I) Pvt. Ltd., TF-304, Florence Classic, 10, Shree Ashapuri Society, Akota, Vadodara, Gujarat**

**Accreditation Standard**    **ISO/IEC 17025: 2005**

**Certificate Number**        **CC-2903 (in lieu of C-1155)**

**Page**                      **3 of 3**

**Validity**                      **20.11.2018 to 19.11.2020**

**Last Amended on**    **03.12.2018**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
5.	Calibration of Chambers, Ovens & Furnaces*	(-) 5 °C to 200 °C	2.88 °C	Using Master RTD's with multi Channel Data Logger Using Nine Sensors by Multi Position Calibration
		200 °C to 1200 °C	6.50 °C	Using Master Thermocouples with Multi Channel Data Logger Using Nine Sensors by Multi Position Calibration

\* Measurement Capability is expressed as an uncertainty ( $\pm$ ) at a confidence probability of 95%

\$ Only in Permanent Laboratory

\*Only for Site Calibration

---

**Mamta Bharti**  
**Convenor**

---

**Avijit Das**  
**Program Manager**