

Laboratory	Electronics Test & Development Centre, B-108, Phase-VIII, Industrial Area, (SAS Nagar), Mohali, Punjab		
Accreditation Standard	ISO/IEC 17025:2005		
Discipline	Thermal Calibration	Issue Date	24.04.2015
Certificate Number	C-0012	Valid Until	19.02.2017
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
TEMPERATURE			
1. PRT / TEMPERATURE TRANSMITTER / SENSOR WITH OR WITHOUT TEMPERATURE INDICATOR /CONTROLLER \$	(-) 70 °C to (-) 45 °C	0.6 °C	Using Climatic Test Chamber (Make-Weiss Technik) as source with Precision Thermometer (Model F-150-D, Make-ASL) and PRT (Model-5626, Make-Hart Scientific) by Comparison Method
2. PRT / TEMPERATURE TRANSMITTER / SENSOR WITH OR WITHOUT TEMPERATURE INDICATOR /CONTROLLER GLASS THERMOMETER \$	(-) 45°C to 180°C	0.51 °C	Using Refrigerated and Heating Circulator (Model FP50-HL, Make-Julabo) as source with SPRT (Make-Isotech) and Precision Thermometer (Model F-150-D, Make-ASL) by comparison method
3. PRT / TEMPERATURE TRANSMITTER / THERMOCOUPLE SENSOR WITH OR WITHOUT TEMPERATURE INDICATOR /CONTROLLER \$	180 °C to 600 °C	0.63 °C	Using Dry Block Calibrator (Model 1200B, Make-Isotech) as source with SPRT (Make Isotech) and Precision Thermometer (Model F-150-D, Make ASL) by Comparison Method
4. THERMOCOUPLE WITH AND WITHOUT TEMPERATURE INDICATOR / CONTROLLER \$	600 °C to 1000 °C	2.1 °C	Using Dry Block Calibrator (Model 1200B, Make-Isotech) as a source with S type Thermocouple (Make-Isotech) & Precision Thermometer (Model F-150-D, Make-ASL) by Comparison Method
5. PRT, TEMPERATURE TRANSMITTER, SENSOR WITH OR WITHOUT TEMPERATURE INDICATOR / CONTROLLER GLASS THERMOMETER *	(-) 30 °C to 140 °C	0.6 °C	Using Dry Block Calibrator, Venus Site with liquid container kit as source with Multifunction Process Calibrator (Model 200+, Make Microcal) & SPRT (Make-Isotech) by comparison method

Naveen Jangra
Convenor

Avijit Das
Program Manager

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
6. CALIBRATION OF ENVIRONMENTAL CHAMBER *	(-) 70 °C to 180 °C	1.2 °C	Using RTD with Data logger (Make Wahl) by Comparison Method (Multipoint Measurement upto 6 points)
7. REFRIGERATOR, DEEP FREEZER, INCUBATOR, OVEN, DRY BLOCK CALIBRATOR *	(-) 70 °C to 180 °C	1.2 °C	Using RTD with Multifunction Process Calibrator (Model 200 ⁺ , Make-Microcal) by Comparison Method (Multipoint measurement upto 5 points)
8. PRT, THERMOCOUPLE, TEMPERATURE TRANSMITTER, SENSOR WITH OR WITHOUT TEMPERATURE INDICATOR /CONTROLLER *	140 °C to 600 °C 600 °C to 1000 °C	0.63 °C 2.1 °C	Using Dry Block Calibrator, Venus site (1200B, Make-Isotech) as source with SPRT (Make-Isotech), Multifunction Process Calibrator (Model 200 ⁺ , Make-Microcal) and S Type Thermocouple (Make Isotech) by Comparison Method

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

\$Only in Permanent Laboratory

*Only for Site Calibration

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