

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
<i>Thermal</i>			
Temperature Measurement system <sup>5</sup> (Liquid Expansion Glass Thermometer/ Digital Thermometer / Dial thermometer/ Temperature sensor indicator-RTD/TC, Analog thermometer	-90 °C to 400 °C 400 °C to 600 °C 600 °C to 1200 °C	0.06 °C 1.1 °C 1.9 °C	Using Reference Sensor (PRT and S Type with indicator) by Comparison Method
Thermostatic enclosures Muffle Furnace <sup>5</sup>	-90 °C to 250 °C 250 °C to 450 °C 450 °C to 650 °C 650 °C to 800 °C	0.2 °C 1.2 °C 2.1 °C 2.4 °C	By using Temp Sensor with Indicator (PT-100/ S Type/ K Type) by Mapping Method (The number of sensors depends on the volume of the enclosure)
Climate chambers <sup>5</sup>	Temperature 15 °C to 50 °C  Relative humidity 15 %RH to 90 %RH	0.36 °C  3.0 % + 0.061 %RH	By using Temp Sensor with Indicator (PT-100) and Reference Hygrometer by Mapping Method The number of sensors depends on the volume of the enclosure)
Water Bath <sup>5</sup>	-30 °C to 100 °C	0.20 °C	By using Temp Sensor with Indicator (PT-100) by Direct method (Single Sensor Method)
Thermo-button Thermograph Temperature recorder <sup>5</sup>	-60 °C to 140 °C	0.20 °C	Using Climatic chamber by Comparison Method
Impedance hygrometer Mechanical hygrometer Psychrometer Humidity logger Thermo-hygrograph Thermo-hygrometer	15 °C to 50 °C 10 %RH to 90 %RH	0.3 °C 1.3 % + 0.21 %RH	Using Reference Sensor (PRT and Humidity Meter & Climate Chamber) by Comparison Method
Dew point hygrometer	5 °C to 50 °C	0.2 °C	Using Reference Dew Point Meter and Climate Chamber by Comparison Method
Infrared thermometer Optical pyrometer Thermal camera <sup>5</sup>	-15 °C to 35 °C 35 °C to 120 °C 120 °C to 350 °C 350 °C to 500 °C	1.2 °C 2.5 °C 6 °C 8 °C	Using radiant standard plane source (Infrared Calibrator) by direct method $\epsilon=0,95$ $\lambda=(8 \text{ to } 14) \mu\text{m}$