

## SCOPE OF ACCREDITATION

SCOPE OF ACCREDITATION (Permanent Facility)				
S.#	Parameter Measured	Range	B.M.C	Instrument Used
1.	Contact Type Temp Sensors (Thermocouples, RTD's, Digital Temp, Indicator, Thermometers)	-38°C.... 0 °C	±0.06 °C	Using Standard PRT, Cropico Digital Thermometer, with Methanol Liquid Bath, HART Bath, Oil Bath & Calsys 650
		0°C....140°C	±0.05°C	
		140°C...250°C	±0.10°C	
		250°C...500°C	±0.18°C	
		500°C...1000°C	±1.24°C	Using Standard "S" type T/C, Cropico Digital Thermometer with Calsys 1200L & Calsys 1700
		1000°C...1200 °C	±2.20°C	
		1200°C...1600 °C	±3.70°C	
2.	Non-contact Infrared Pyrometers	50.... 250 °C	±1.5 °C	Using Standard Pyrometer, Impac Black Body, Cropico Digital Thermometer
		250.... 400 °C	±2.4 °C	
		400....500 °C	±3.4 °C	
		500....800 °C	±3.6 °C	Using Standard Pyrometer , Impac Black Body, LAND Black Body & Calsys 1700
		800....1200 °C	±4.1 °C	
		1200....1600 °C	±5.9 °C	
<b>Fixed Point Temperature calibration</b>				
3.	SPRT,PRT & Thermocouple			
	Triple point of Water (SPRT & TPW Cell)	0.01°C	±0.015°C	Using HART Scientific make SPRT, Maintenance Apparatus, TPW Cell & Cropico make readout
	Triple point of Gallium (SPRT & Ga Cell)	29.7646°C	±0.029°C	Using HART Scientific make SPRT, Maintenance Apparatus, Ga Cell & Cropico make readout
	Triple point of Tin (SPRT & Sn Cell)	231.928°C	±0.039°C	Using HART Scientific make SPRT, Maintenance Apparatus, Sn Cell & Cropico make readout
	Triple point of Zinc (SPRT & Zn Cell)	419.527°C	±0.034°C	Using HART Scientific make SPRT, Maintenance Apparatus, Zn Cell & Cropico make readout
	Triple point of Aluminium (SPRT & Al Cell)	660.323°C	±0.040°C	Using HART Scientific make SPRT, Maintenance Apparatus, Al Cell & Cropico make readout

### Temperature Sensor Technology

SCOPE OF ACCREDITATION (On Site Facility)				
S.#	Parameter Measured	Range	B.M.C	Instrument Used
1.	Contact Type Temp Sensors (Thermocouples, RTD's, Digital Temp, Indicator, Thermometers)	-25°C...0°C	±0.062°C	Using Cropico Digital Thermometer, PRT(25.5) with Methanol Liquid Bath, HART Bath, Oil Bath & Calsys 650
		0°C.....140°C	±0.05°C	
		140°C...250°C	±0.10°C	
		250°C...500°C	±0.18°C	
		500°C...1000°C	±1.25°C	Using Cropico Digital Thermometer & PT/RH-PT T/C with Calsys 1200L & Calsys 1500L Dry Block Bath
		1000°C...1200°C	±2.20°C	
2.	Non-contact Infrared Pyrometers	50.... 250 °C	±1.6 °C	Using IMPAC Black Body ,Cropico Digital Thermometer, RTD & Standard Pyrometer
		250.... 400 °C	±2.4 °C	
		400....500 °C	±3.6 °C	
		500....800 °C	±3.6 °C	
		800....1200 °C	±4.1 °C	Using Calsys 1200 TBB Black Body , Standard Pyrometer

## Temperature Sensor Technology