

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	±2.2°C		
		1200°C...1600 °C	±3.7°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		
Fixed Point Temperature calibration					
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	±0.06°C	Using Cropico Digital Thermometer, PRT(25.5) with Methanol Liquid Bath, HART Bath, Oil Bath & Calsys 650
		0°C.....140°C	±0.07°C	
		140°C...250°C	±0.10°C	
		250°C...500°C	±0.14°C	
		500°C...1000°C	±1.42°C	
		1000°C...1200°C	±2.20°C	
2.	Non-contact Infrared Pyrometers	50.... 250 °C	±0.40 °C	Using IMPAC Black Body ,Cropico Digital Thermometer, RTD & Standard Pyrometer
		250.... 400 °C	±0.90 °C	
		400....500 °C	±3.30 °C	
		500....800 °C	±3.50 °C	Using Calsys 1200 TBB Black Body , Standard Pyrometer
		800....1000 °C	±4.10 °C	
		1000....1200 °C	±4.10 °C	

Temperature Sensor Technology