


Scope of Accreditation for Calibration

Accreditation No. : CALIBRATION 0156

Laboratory Status : Permanent Site Temporary Mobile

Field of Measurement	Parameter/Range/Item	Best Measurement Capability*	Standard/Technique/Method/Equipment/Remark
3. Temperature	Temperature controlled chamber		In-house Method : CM-006 by comparison with data logger with thermocouple sensor
	-30 °C to 50 °C	0.60 °C	
	> 50 °C to 100 °C	0.90 °C	
	> 100 °C to 150 °C	1.2 °C	
	> 150 °C to 200 °C	1.5 °C	In-house method : CM-010 by comparison with semi-SPRT in liquid bath and dry block
	Data logger with sensor		
	Resistance Temperature detector (RTD)		
	-30 °C to 50 °C	0.25 °C	
	> 50 °C to 400 °C	0.31 °C	
	> 400 °C to 600 °C	0.40 °C	
	Thermocouple		
	-30 °C to 50 °C	0.35 °C	
	> 50 °C to 100 °C	0.60 °C	
	> 100 °C to 150 °C	0.80 °C	
> 150 °C to 200 °C	1.0 °C		
> 200 °C to 250 °C	1.2 °C		
Liquid bath (5 positions)		In-house method : CM-008 by comparison with data logger with thermocouple sensor	
30 °C to 50 °C	0.60 °C		
> 50 °C to 100 °C	0.80 °C		
> 100 °C to 150 °C	1.2 °C		
> 150 °C to 200 °C	1.5 °C		

* expressed as an uncertainty (+) which for k = 2, providing a level of confidence of approximately 95%



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Field of Measurement	Parameter/Range/Item	Best Measurement Capability*	Standard/Technique/Method/Equipment/Remark
3. Temperature (cont.)	Digital thermometer with sensor		In-house method : CM-003 by comparison with PRT in liquid bath and dry block
	Resistance Temperature detector (RTD)		
	-30 °C to 50 °C	0.25 °C	
	> 50 °C to 400 °C	0.31 °C	
	> 400 °C to 600 °C	0.40 °C	
	Thermocouple		In-house method : CM-003 by comparison with PRT in liquid bath and dry block
	-30 °C to 50 °C	0.35 °C	
	> 50 °C to 100 °C	0.60 °C	
	> 100 °C to 150 °C	0.80 °C	
	> 150 °C to 200 °C	1.0 °C	
	> 200 °C to 250 °C	1.2 °C	
	> 250 °C to 300 °C	1.5 °C	
	> 300 °C to 400 °C	1.9 °C	
> 400 °C to 500 °C	2.4 °C		
> 500 °C to 600 °C	2.8 °C		
Autoclave		In-house method : CM-023 by comparison with wireless data logger with sensor	
110 °C to 130 °C	0.70 °C		

* expressed as an uncertainty (+) which for k = 2, providing a level of confidence of approximately 95%

