

Scope of Accreditation for Calibration

Accreditation No. : CALIBRATION 0156

Laboratory Status : Permanent Site Temporary Mobile

Field of Measurement	Parameter/Range/Item	Calibration and 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 PRT 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			

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

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3. Temperature (cont.)	Liquid bath (5 positions) (cont.)		In-house method : CM-008 by comparison with data logger with thermocouple sensor
	> 100 °C to 150 °C	1.2 °C	
	> 150 °C to 200 °C	1.5 °C	
	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 600 °C	2.8 °C		

Signature

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3. Temperature (cont.)	Autoclave 110 °C to 130 °C	0.70 °C	In-house method : CM-023 by comparison with wireless data logger with sensor
4. Dimension	Surface plate 300 mm x 300 mm ≤ 400 mm x 250 mm ≤ 400 mm x 400 mm ≤ 450 mm x 300 mm ≤ 600 mm x 450 mm ≤ 600 mm x 600 mm ≤ 630 mm x 400 mm ≤ 630 mm x 630 mm ≤ 750 mm x 500 mm ≤ 800 mm x 500 mm ≤ 900 mm x 600 mm ≤ 1 000 mm x 750 mm ≤ 1 000 mm x 1 000 mm ≤ 1 200 mm x 800 mm ≤ 1 500 mm x 1 000 mm ≤ 2 000 mm x 1 000 mm ≤ 2 000 mm x 1 500 mm	2.1 μm 2.2 μm 2.2 μm 2.2 μm 2.4 μm 2.4 μm 2.5 μm 2.6 μm 2.7 μm 2.9 μm 3.0 μm 3.3 μm 3.4 μm 3.9 μm 4.6 μm 6.0 μm 6.1 μm	In-house method : CM-057 based on JIS B 7513 : 1992
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