

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

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4. Dimension (cont.)	Surface plate (cont.)		In-house method : CM-057 based on JIS B 7513 : 1992
	≤ 2 000 mm x 2 000 mm	6.7 μm	
	≤ 3 000 mm x 1 500 mm	8.7 μm	
	≤ 3 000 mm x 2 000 mm	8.8 μm	
	≤ 3 000 mm x 3 000 mm	11 μm	
	Universal length measuring machine (ULM)		In-house method : CM-078 based on ISO 3611-1978 (E)
0 mm to 100 mm	$0.090 \mu\text{m} + 2.9 \times 10^{-6} \times l$		
> 100 mm to 500 mm	$0.57 \mu\text{m} + 2.9 \times 10^{-6} \times l$		
		l being the nominal length	
Gauge block comparator			In-house method : CM-085 based on EAL-G21
0 mm to 100 mm	0.032 μm		
Profile projector			In-house method : CM-082 based on JIS B 7184 : 1999
Measuring accuracy of rotation angle of rotating screen			
0 degree to 360 degree	3.0 minute		

Signature

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4. Dimension (cont.)	Profile projector (cont.)		In-house method : CM-082 based on JIS B 7184 : 1999
	Measuring accuracy of each axis		
	0 mm to 50 mm	1.5 μm	
	> 50 mm to 150 mm	2.0 μm	
	> 150 mm to 250 mm	2.0 μm	
	Measuring microscope / toolmaker's microscope		
Measuring accuracies of respective axis, x-axis direction and y-axis direction			
0 mm to 50 mm	1.5 μm		
> 50 mm to 150 mm	2.0 μm		
> 150 mm to 250 mm	2.0 μm		
5. Electrical	pH meter		In-house method : CM-062 by direct measurement with standard calibrator
	DC Voltage		
	-414.12 mV	65 μV	
	-354.96 mV	65 μV	
	-295.80 mV	65 μV	
	-236.64 mV	65 μV	
-177.48 mV	65 μV	<i>S. Manon</i>	

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