Philippine Accreditation Bureau

ACAL-0826-514A

SCOPE OF ACCREDITATION

STANDARD MEASURING INSTRUMENT CALIBRATION SERVICES (SMICS)

#733 Molave St. 74-A Davao City, Davao del Sur

Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Calibration Method/ Reference Standard
Pressure and vacuum measuring devices				
Pressure Gauge (Bourdon Tube Type and Other Mechanical Sensor Type Pressure Gauge) Analog and Digital	Pressure Gauge (Bourdon Tube Type and Other Mechanical Sensor Type Pressure Gauge) Analog and Digital	0 psi to 10 psi	0.17 psi	SMICSCMP-006 (DKD R 6-1) on-site/ in-house
		0 psi to 30 psi	0.31 psi	
		0 psi to 60 psi	0.58 psi	
		0 psi to 100 psi	0.58 psi	
		0 psi to 160 psi	1.1 psi	
		0 psi to 200 psi	1.1 psi	
		0 psi to 300 psi	5.6 psi	
		0 psi to 400 psi	5.6 psi	
		0 psi to 600 psi	11 psi	
		0 psi to 1000 psi	11 psi	
Temperature Measuring Equipment				
Bimetallic Thermometer, Gas Expansion Thermometer	Bimetallic Thermometer, Gas Expansion Thermometer	-20 °C to 200 °C	0.66 °C	SMICSCMP-004 (OIML R 133, EURAMET CG-8, EURAMET CG-13, ISO 80601-2-56, DKD R 5-6, ASTM E77-14) in-house
Liquid Expansion Thermometer	Liquid Expansion Thermometer	-20 °C to 200 °C	0.66 °C	
Digital Thermometer with Electrical Resistance Sensors	Digital Thermometer with Electrical Resistance Sensors	-20 °C to 200 °C	0.66 °C	
Digital Thermometer with Electrical Potential Sensors	Digital Thermometer with Electrical Potential Sensors	-20 °C to 200 °C	0.66 °C	
Calibration of Temperature Controlled Enclosure				
Freezers, Refrigerators and Chillers	Freezers, Refrigerators and Chillers	-25 °C to 25 °C	0.94 °C	SMICSCMP-001 (DKD-R-5-7) on-site
Incubator, Oven, Water Bath, Autoclave	Incubator, Oven, Water Bath, Autoclave	20 °C to 120 °C	0.50 °C	

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Weighing Devices				
Precision Laboratory Balance: Special and High Accuracy Class (Using OIML Class F1 or ASTM Class 1 Standard)	Precision Laboratory Balance: Special and High Accuracy Class (Using OIML Class F1 or ASTM Class 1 Standard)	0 to 100 g	0.00062 g	EURAMET CG 18 on-site
		0 to 220 g	0.00062 g	
		0 to 320 g	0.00075 g	
		0 to 420 g	0.00075 g	
Industrial Balance: Medium and Ordinary Class (Using OIML Class M1 Standard)	Industrial Balance: Medium and Ordinary Class (Using OIML Class M1 Standard)	500 g to 1 kg	0.081 g	EURAMET CG 18 in-house/ on-site
		>1kg to 2 kg	0.081 g	
		>2 kg to 5 kg	0.081 g	
		>5 kg to 10 kg	0.10 g	
		>10 kg to 20 kg	0.15 g	
		>20 kg to 30 kg	0.26 g	
		>30 kg to 50 kg	0.38 g	
		>50 kg to 100 kg	0.62 g	
		>100 kg to 150 kg	1.5 g	
		>150 kg to 200 kg	1.5 g	
		>200 kg to 300 kg	2.6 g	
		>300 kg to 350 kg	3.8 g	
Masses				
(Class M1 – M3)	Test Weights (Class M1 – M3)	1 g	0.013 g	OIML R111 In-house
		2 g	0.013 g	
		5 g	0.013 g	
		10 g	0.013 g	
		20 g	0.013 g	
		50 g	0.013 g	
		100 g	0.013 g	
		200 g	0.013 g	
		500 g	0.014 g	
		1 kg	0.014 g	
		2 kg	0.016 g	
		5 kg	0.25 g	
		10 kg	0.25 g	
Volumetric Equipment				
Volumetric Glasswares	Graduated Cylinder	5 mL	0.056 mL	ASTM E542-01 inhouse
		10 mL	0.10 mL	
		25 mL	0.17 mL	
		50 mL	0.24 mL	
		100 mL	0.39 mL	

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		250 mL	1.0 mL	
		500 mL	1.3 mL	
		1000 mL	1.9 mL	
		2000 mL	3.1 mL	
	Volumetric Pipette	0.5 mL	0.057 mL	
		1.0 mL	0.057 mL	
		2.0 mL	0.057 mL	
		3.0 mL	0.057 mL	
		4.0 mL	0.057 mL	
		5.0 mL	0.057 mL	
		10.0 mL	0.057 mL	
		15.0 mL	0.057 mL	
		20.0 mL	0.057 mL	
		25.0 mL	0.057 mL	
		50.0 mL	0.057 mL	
	Volumetric Flask	5.0 mL	0.030 mL	
		10.0 mL	0.030 mL	
		25.0 mL	0.030 mL	
		50.0 mL	0.045 mL	
		100.0 mL	0.067 mL	
		200.0 mL	0.10 mL	
		250.0 mL	0.70 mL	
		500.0 mL	0.71 mL	
		1000.0 mL	0.71 mL	
		2000.0 mL	0.75 mL	
	Beaker	5 mL	0.19 mL	
		10 mL	0.27 mL	
		25 mL	0.47 mL	
		50 mL	0.72 mL	
		100 mL	1.0 mL	
		150 mL	1.5 mL	
		200 mL	1.5 mL	ASTM E542-01 inhouse
		250 mL	2.2 mL	
		400 mL	2.8 mL	
		500 mL	3.1 mL	
		600 mL	3.5 mL	
		800 mL	4.3 mL	
		1000 mL	4.7 mL	
		2000 mL	7.2 mL	
	Graduated Pipette	0.1 mL	0.0062 mL	

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		0.2 mL	0.0062 mL	
		0.5 mL	0.0062 mL	
		1.0 mL	0.0062 mL	
		2.0 mL	0.057 mL	
		5.0 mL	0.057 mL	
		10.0 mL	0.057 mL	
		25.0 mL	0.057 mL	
		50.0 mL	0.11 mL	
	Burette	10.0 mL	0.012 mL	
		25.0 mL	0.057 mL	
		50.0 mL	0.057 mL	
		100.0 mL	0.57 mL	
	Erlenmeyer Flask	25.0 mL	2.8 mL	
		50.0 mL	5.6 mL	
		125.0 mL	8.5 mL	
		250.0 mL	28 mL	
		500.0 mL	56 mL	
		1000.0 mL	113 mL	
	Micropipette	Up to 1 mL	0.0025 mL	
Other Volumetric Equipment				
Test Measure	Test Measure (Volumetric)	10 L	0.0027 L	EURAMET-CG21
Industrial Proving Tanks	Industrial Proving Tanks (Volumetric)	Up to 500 L	0.22 L	SMICSCMP-016

* CMC expressed as an expanded uncertainty having a specific coverage probability of approximately 95%.

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CALIBRATION LABORATORY
ISO/IEC 17025:2017
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