



**Philippine  
Accreditation  
Bureau**

# **CERTIFICATE OF ACCREDITATION**

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

## **SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.**

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Calibration** as specified in the Scope of Accreditation.

Accreditation Number:	<b>LA-2016-296B</b>
Scope Reference:	<b>ACAL-1123-296B</b>
Accreditation Validity:	<b>March 02, 2026</b>
Date Issued:	<b>November 24, 2023</b>

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

A blue ink signature of James E. Empeño, written in a cursive style.

**JAMES E. EMPEÑO**

Director IV  
Philippine Accreditation Bureau



**PAB ACCREDITED  
CALIBRATION LABORATORY  
PNS ISO/IEC 17025:2017  
LA-2016-296B**



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
Engineering Metrology Equipment				
Internal/external micrometers	Internal/external micrometers	0 mm to 25 mm	0.59 $\mu\text{m}$	In-house Calibration SMCS-MCP-922
		> 25 mm to 50 mm	0.62 $\mu\text{m}$	
		> 50 mm to 75 mm	0.66 $\mu\text{m}$	
		> 75 mm to 100 mm	0.71 $\mu\text{m}$	
		> 100 mm to 125 mm	0.77 $\mu\text{m}$	
		> 125 mm to 150 mm	0.84 $\mu\text{m}$	
		> 150 mm to 175 mm	0.91 $\mu\text{m}$	
		> 175 mm to 200 mm	0.98 $\mu\text{m}$	
		> 200 mm to 225 mm	1.1 $\mu\text{m}$	
		> 225 mm to 250 mm	1.1 $\mu\text{m}$	
		> 250 mm to 275 mm	1.2 $\mu\text{m}$	
		> 275 mm to 300 mm	1.3 $\mu\text{m}$	
		> 300 mm to 325 mm	1.4 $\mu\text{m}$	
		> 325 mm to 350 mm	1.5 $\mu\text{m}$	
		> 350 mm to 375 mm	1.6 $\mu\text{m}$	
		> 375 mm to 400 mm	1.7 $\mu\text{m}$	
		> 400 mm to 425 mm	1.8 $\mu\text{m}$	
		> 425 mm to 450 mm	1.9 $\mu\text{m}$	



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		> 450 mm to 475 mm	2.0 $\mu$ m	
		> 475 mm to 500 mm	2.0 $\mu$ m	
		> 500 mm to 525 mm	2.1 $\mu$ m	
		> 525 mm to 550 mm	2.2 $\mu$ m	
		> 550 mm to 575 mm	2.3 $\mu$ m	
		> 575 mm to 600 mm	2.4 $\mu$ m	
		> 600 mm to 625 mm	2.5 $\mu$ m	
		> 625 mm to 650 mm	2.6 $\mu$ m	
		> 650 mm to 675 mm	2.7 $\mu$ m	
		> 675 mm to 700 mm	2.8 $\mu$ m	
		> 700 mm to 725 mm	2.9 $\mu$ m	
		> 725 mm to 750 mm	3.0 $\mu$ m	
		> 750 mm to 775 mm	3.1 $\mu$ m	
		> 775 mm to 800 mm	3.2 $\mu$ m	
		> 800 mm to 825 mm	3.3 $\mu$ m	
		> 825 mm to 850 mm	3.4 $\mu$ m	
		> 850 mm to 875 mm	3.5 $\mu$ m	



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		> 875 mm to 900 mm	3.6 $\mu$ m	
		> 900 mm to 925 mm	3.7 $\mu$ m	
		> 925 mm to 950 mm	3.8 $\mu$ m	
		> 950 mm to 975 mm	3.9 $\mu$ m	
		> 975 mm to 1000 mm	4.0 $\mu$ m	
Digimatic and dial thickness gauges, digimatic and dial gauges and test indicators	Digimatic and dial thickness gauges, digimatic and dial gauges and test indicators	0 mm to 10 mm	0.58 $\mu$ m	In-house Calibration SMCS-MCP-926
		> 10 mm to 20 mm	0.58 $\mu$ m	
		> 20 mm to 30 mm	0.58 $\mu$ m	
		> 30 mm to 50 mm	0.59 $\mu$ m	
		> 50 mm to 100 mm	0.61 $\mu$ m	
Electronic, vernier, dial calipers	Electronic, vernier, dial calipers	0 mm to 150 mm	5.7 $\mu$ m	In-house Calibration SMCS-MCP-923
		> 150 mm to 200 mm	5.8 $\mu$ m	
		> 200 mm to 300 mm	5.8 $\mu$ m	
		> 300 mm to 450 mm	5.8 $\mu$ m	
		> 450 mm to 600 mm	5.9 $\mu$ m	
Steel rules and measuring rules	Steel rules and other measuring rules	> 600 mm to 1000 mm	6.1 $\mu$ m	In-house Calibration SMCS-MCP-988
		0 mm to 100 mm	0.057 mm	
		> 100 mm to 300 mm	0.058 mm	
		> 300 mm to 600 mm	0.059 mm	
		> 600 mm to 1000 mm	0.061 mm	



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	Steel tapes and other measuring tapes	0 m to 1 m	0.061 mm	In-house Calibration SMCS-MCP-930
		> 1 m to 2 m	0.12 mm	
		> 2 m to 4 m	0.25 mm	
		> 4 m to 6 m	0.37 mm	
		> 6 m to 8 m	0.49 mm	
		> 8 m to 10 m	0.61 mm	
		> 10 m to 12 m	0.73 mm	
		> 12 m to 14 m	0.86 mm	
		> 14 m to 16 m	0.98 mm	
		> 16 m to 18 m	1.1 mm	
		> 18 m to 20 m	1.2 mm	
		> 20 m to 25 m	1.5 mm	
		> 25 m to 30 m	1.8 mm	
		> 30 m to 35 m	2.1 mm	
		> 35 m to 40 m	2.4 mm	
		> 40 m to 45 m	2.7 mm	
		> 45 m to 50 m	3.1 mm	
Digimatic, dial and vernier height and depth gauges	Digimatic, dial and vernier height and depth gauges	0 mm to 200 mm	5.8 μm	In-house Calibration SMCS-MCP-963
		> 200 mm to 300 mm	5.8 μm	
		> 300 mm to 450 mm	5.8 μm	
		> 450 mm to 600 mm	5.9 μm	
Gauge Blocks, Grade 1 and 2	Gauge Blocks, Grade 1 and 2	0.5 mm to 10 mm	0.13 μm	In-house calibration  SMCS-MCP-955
		> 10 mm to 25 mm	0.13 μm	
		> 25 mm to 50 mm	0.17 μm	
		> 50 mm to 75 mm	0.19 μm	
		> 75 mm to 100 mm	0.21 μm	
Masses				
Determination of mass	Test Weights OIML Class M1	1 mg	0.060 mg	In-house Calibration SMCS-MCP-947
		2 mg	0.060 mg	
		5 mg	0.060 mg	



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Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		10 mg	0.080 mg	
		20 mg	0.10 mg	
		50 mg	0.12 mg	
		100 mg	0.16 mg	
		200 mg	0.20 mg	
		500 mg	0.25 mg	
		1 g	0.30 mg	
		2 g	0.40 mg	
		5 g	0.50 mg	
		10 g	0.60 mg	
		20 g	0.80 mg	
		50 g	1.0 mg	
		100 g	1.6 mg	
		200 g	3.0 mg	
		500 g	8.0 mg	
		1 kg	16 mg	
		2 kg	30 mg	
		5 kg	80 mg	
		10 kg	160 mg	
		20 kg	300 mg	
	Test Weights OIML Class M2	100 mg	0.50 mg	In-house Calibration SMCS-MCP-947
		200 mg	0.60 mg	
		500 mg	0.80 mg	
		1 g	1.0 mg	
		2 g	1.2 mg	
		5 g	1.6 mg	
		10 g	2.0 mg	
		20 g	2.5 mg	
		50 g	3.0 mg	
		100 g	5.0 mg	
		200 g	10 mg	
		500 g	25 mg	
		1 kg	50 mg	



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Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		2 kg	100 mg	
		5 kg	250 mg	
		10 kg	500 mg	
		20 kg	1000 mg	
	Test Weights OIML Class M3	1 g	3.0 mg	In-house Calibration SMCS-MCP-947
		2 g	4.0 mg	
		5 g	5.0 mg	
		10 g	6.0 mg	
		20 g	8.0 mg	
		50 g	10 mg	
		100 g	16 mg	
		200 g	30 mg	
		500 g	80 mg	
		1 kg	160 mg	
		2 kg	300 mg	
		5 kg	800 mg	
		10 kg	1600 mg	
		20 kg	3000 mg	
	Test Weights (OIML) Class F2	1 mg	0.020 mg	In-house Calibration SMCS-MCP-947
		2 mg	0.020 mg	
		5 mg	0.020 mg	
		10 mg	0.025 mg	
		20 mg	0.030 mg	
		50 mg	0.040 mg	
		100 mg	0.050 mg	
		200 mg	0.060 mg	
		500 mg	0.080 mg	
		1 g	0.10 mg	
		2 g	0.12 mg	
		5 g	0.16 mg	
		10 g	0.20 mg	
		20 g	0.25 mg	
		50 g	0.30 mg	



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Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		100 g	0.50 mg	
		200 g	1.0 mg	
	Test Weights (OIML) Class F1	1 mg	0.0060 mg	In-house Calibration SMCS-MCP-947
		2 mg	0.0060 mg	
		5 mg	0.0060 mg	
		10 mg	0.0080 mg	
		20 mg	0.010 mg	
		50 mg	0.012 mg	
		100 mg	0.016 mg	
		200 mg	0.020 mg	
		500 mg	0.025 mg	
		1 g	0.030 mg	
		2 g	0.040 mg	
		5 g	0.050 mg	
		10 g	0.060 mg	
		20 g	0.080 mg	
		50 g	0.10 mg	
		100 g	0.16 mg	
		200 g	0.30 mg	
	Test weights (Non-OIML)	1 mg	0.0060 mg	In-house Calibration SMCS-MCP-948
		2 mg	0.0060 mg	
		5 mg	0.0060 mg	
		10 mg	0.0080 mg	
		20 mg	0.010 mg	
		50 mg	0.012 mg	
		100 mg	0.016 mg	
		200 mg	0.020 mg	
		500 mg	0.025 mg	
		1 g	0.030 mg	
		2 g	0.040 mg	
		5 g	0.050 mg	
		10 g	0.060 mg	
		20 g	0.080 mg	





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		50 g	0.10 mg	
		100 g	0.16 mg	
		200 g	0.30 mg	
		500 g	8.0 mg	
		1 kg	16 mg	
		2 kg	30 mg	
		5 kg	80 mg	
		10 kg	160 mg	
		20 kg	300 mg	
		25 kg	380 mg	

#### Weighing Devices

Precision Laboratory Balances	Precision Laboratory Balances	up to 100 mg	0.011 mg	On-site Calibration SMCS-MCP-935 EURAMET cg-18
		> 100 mg to 200 mg	0.014 mg	
		> 200 mg to 500 mg	0.017 mg	
		> 500 mg to 1 g	0.021 mg	
		> 1 g to 2 g	0.027 mg	
		> 2 g to 5 g	0.034 mg	
		> 5 g to 10 g	0.041 mg	
		> 10 g to 20 g	0.054 mg	
		> 20 g to 50 g	0.067 mg	
		> 50 g to 100 g	0.11 mg	
		> 100 g to 200 g	0.21 mg	
		> 200 g to 300 g	0.32 mg	
		> 300 g to 500 g	2.2 mg	
		> 500 g to 1 kg	3.5 mg	
		> 1 kg to 2 kg	10 mg	
		> 2 kg to 3 kg	13 mg	
		> 3 kg to 5 kg	0.019 g	
		> 5 kg to 8 kg	0.060 g	
		> 8 kg to 10 kg	0.31 g	
		> 10 kg to 20 kg	0.61 g	
		> 20 kg to 30 kg	0.92 g	
Industrial Balances	Industrial Balances	Up to 1 kg	0.0035 g	On-site Calibration



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		> 1 kg to 2 kg	0.010 g	SMCS-MCP-935 EURAMET cg-18
		> 2 kg to 3 kg	0.013 g	
		> 3 kg to 5 kg	0.019 g	
		> 5 kg to 8 kg	0.060 g	
		> 8 kg to 10 kg	0.31 g	
		> 10 kg to 20 kg	0.61 g	
		> 20 kg to 30 kg	0.92 g	
		> 30 kg to 50 kg	1.5 g	
		> 50 kg to 100 kg	3.1 g	
		> 100 kg to 150 kg	4.6 g	
		> 150 kg to 200 kg	6.2 g	
		> 200 kg to 300 kg	12 g	
		> 300 kg to 500 kg	17 g	
		> 500 kg to 1000 kg	32 g	
		> 1000 kg to 1200 kg	38 g	
		> 1200 kg to 1500 kg	51 g	
		> 1500 kg to 2000 kg	68 g	
		> 2000 kg to 2500 kg	85 g	
		> 2500 kg to 3000 kg	98 g	
Industrial Weighing Appliances	Industrial Weighing appliances	Up to 1 kg	0.0035g	On-site Calibration SMCS-MCP-935 EURAMET cg-18
		> 1 kg to 2 kg	0.010 g	
		> 2 kg to 3 kg	0.013 g	
		> 3 kg to 5 kg	0.019 g	
		> 5 kg to 8 kg	0.060 g	
		> 8 kg to 10 kg	0.31 g	
		> 10 kg to 20 kg	0.61 g	
		> 20 kg to 30 kg	0.92 g	
		> 30 kg to 50 kg	1.5 g	
		> 50 kg to 100 kg	3.1 g	
		> 100 kg to 150 kg	4.6 g	
		> 150 kg to 200 kg	6.2 g	
		> 200 kg to 300 kg	12 g	
		> 300 kg to 500 kg	17 g	



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		> 500 kg to 1000 kg	32 g	
		> 1000 kg to 1200 kg	38 g	
		> 1200 kg to 1500 kg	51 g	
		> 1500 kg to 2000 kg	68 g	
		> 2000 kg to 2500 kg	85 g	
		> 2500 kg to 3000 kg	98 g	
Volumetric Equipment				
Volumetric Glassware	Burettes and auto zeroing burettes	0 mL to 10 mL	0.0012 mL	SMCS-MCP-925 In-house Calibration
		> 10 mL to 25 mL	0.0023 mL	
		>25 mL to 50 mL	0.0046 mL	
		> 50 mL to 100 mL	0.012 mL	
	Graduated Pipettes	Up to 0.1 mL	0.00022 mL	SMCS-MCP-925 In-house Calibration
		> 0.1 mL to 0.2 mL	0.0012 mL	
		> 0.2 mL to 0.5 mL	0.0023 mL	
		> 0.5 mL to 1 mL	0.0023 mL	
		> 1 mL to 2 mL	0.0023 mL	
		> 2 mL to 5 mL	0.0046 mL	
		> 5 mL to 10 mL	0.010 mL	
		> 10 mL to 25 mL	0.010 mL	
		> 25 mL to 50 mL	0.023 mL	
	Volumetric Pipettes	0.5 mL	0.0017 mL	SMCS-MCP-925
		1 mL	0.0017 mL	
		2 mL	0.0017 mL	
		3 mL	0.0022 mL	
		4 mL	0.0022 mL	
		5 mL	0.0022 mL	
		6 mL	0.0022 mL	
		7 mL	0.0022 mL	
		8 mL	0.0034 mL	
		9 mL	0.0034 mL	
		10 mL	0.0034 mL	
		15 mL	0.0041 mL	
		20 mL	0.0041 mL	



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		25 mL	0.0058 mL	
		30 mL	0.0058 mL	
		40 mL	0.0058 mL	
		50 mL	0.0058 mL	
		100 mL	0.0058 mL	
	Graduated Cylinders and Beakers	up to 5 mL	0.012 mL	SMCS-MCP-925 In-house Calibration
		> 5 mL to 10 mL	0.012 mL	
		> 10 mL to 25 mL	0.023 mL	
		> 25 mL to 50 mL	0.058 mL	
		> 50 mL to 100 mL	0.12 mL	
		> 100 mL to 250 mL	0.23 mL	
		> 250 mL to 500 mL	0.58 mL	
		> 500 mL to 1000 mL	1.2 mL	
		> 1000 mL to 2000 mL	2.3 mL	
		> 2000 mL to 3000 mL	5.8 mL	
		> 3000 mL to 4000 mL	5.8 mL	
		> 4000 mL to 5000 mL	5.8 mL	
	Volumetric Flasks	up to 5 mL	0.0049 mL	SMCS-MCP-925 In-house Calibration
		> 5 mL to 10 mL	0.0067 mL	
		> 10 mL to 25 mL	0.0086 mL	
		> 25 mL to 50 mL	0.011 mL	
		> 50 mL to 100 mL	0.017 mL	
		> 100 mL to 200 mL	0.029 mL	
		> 200 mL to 250 mL	0.031 mL	
		> 250 mL to 500 mL	0.037 mL	
		> 500 mL to 1000 mL	0.045 mL	



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		> 1000 mL to 2000 mL	0.050 mL	
		> 2000 mL to 3000 mL	0.060 mL	
		> 3000 mL to 4000 mL	0.072 mL	
		> 4000 mL to 5000 mL	0.075 mL	
Special laboratory volumetric apparatus	Special laboratory volumetric apparatus	0 $\mu$ L to 1 $\mu$ L	0.029 $\mu$ L	SMCS-MCP-925 In-house Calibration
		> 1 $\mu$ L to 2 $\mu$ L	0.038 $\mu$ L	
		> 2 $\mu$ L to 5 $\mu$ L	0.048 $\mu$ L	
		> 5 $\mu$ L to 10 $\mu$ L	0.058 $\mu$ L	
		> 10 $\mu$ L to 20 $\mu$ L	0.079 $\mu$ L	
		> 20 $\mu$ L to 50 $\mu$ L	0.15 $\mu$ L	
		> 50 $\mu$ L to 100 $\mu$ L	0.18 $\mu$ L	
		> 100 $\mu$ L to 200 $\mu$ L	0.28 $\mu$ L	
		> 200 $\mu$ L to 500 $\mu$ L	0.65 $\mu$ L	
		> 500 $\mu$ L to 1000 $\mu$ L	1.3 $\mu$ L	
		> 1 mL to 5 mL	0.0064 mL	
		> 5 mL to 10 mL	0.013 mL	
		> 10 mL to 20 mL	0.025 mL	
		> 20 mL to 50 mL	0.061 mL	
		> 50 mL to 100 mL	0.12 mL	
		> 100 mL to 500 mL	0.58 mL	
		> 500 mL to 1000 mL	0.58 mL	
		> 1000 mL to 2000 mL	0.58 mL	
		> 2000 mL to 5000 mL	1.2 mL	
Standard Measure	Test Measures (Volumetric Method)	up to 20 L	3.7 mL	SMCS-MCP-946 In-house Calibration On-site Calibration

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Measuring Instruments on Type Approval				
Liquid Measuring Instruments	Refractometers	0 to 60 % brix	0.083 % brix	SMCS-MCP-943 In-house Calibration
		0 to 30 % salt	0.083 % salt	
	Liquid Dispensers	0 mL to 50 mL	0.058 mL	SMCS-MCP-925 In-house Calibration
		>50 mL to 2000 mL	0.58 mL	
		>2000 mL to 5000mL	1.2 mL	
Pressure and Vacuum Gauge				
Pressure Gauges	Pressure Gauges	0 to 10 kPa	0.012 kPa	SMCS-MCP-927 In-house Calibration
		(0 to 1.45 psi)	(0.0017 psi)	
		>10 to 20 kPa	0.015 kPa	
		(>1.45 to 2.90 psi)	(0.0022 psi)	
		>20 to 40 kPa	0.016 kPa	
		(>2.90 to 5.80 psi)	(0.0023 psi)	
		>40 to 60 kPa	0.019 kPa	
		(>5.80 to 8.70 psi)	(0.0028 psi)	
		>60 to 70 kPa	0.021 kPa	
		(>8.70 to 10.15 psi)	(0.0030 psi)	
		>70 to 80 kPa	0.022 kPa	
		(>10.15 to 11.60 psi)	(0.0032 psi)	
		>80 to 100 kPa	0.024 kPa	
		(>11.60 to 14.5 psi)	(0.0035 psi)	
		>100 to 700 kPa	0.051 kPa	
		(>14.5 to 101.53 psi)	(0.0074 psi)	
		>700 to 723.95 kPa	0.063 kPa	
		(>101.53 to 105 psi)	(0.0092 psi)	
		>723.95 to 1861.59 kPa	0.088 kPa	
		(>105 to 270 psi)	(0.013 psi)	
>1861.59 to 2068.43 kPa	0.15 kPa			
(>270 to 300 psi)	(0.022 psi)			



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>2068.43 to 2413.17 kPa	0.20kPa	
		(>300 to 350 psi)	(0.029 psi)	
		>2413.17 to 2757.90 kPa	0.23 kPa	
		(>350 to 400 psi)	(0.033 psi)	
		>2757.90 to 3102.64 kPa	0.26 kPa	
		(>400 to 450 psi)	(0.037 psi)	
		>3102.64 to 3447.38 kPa	0.28 kPa	
		(>450 to 500 psi)	(0.041 psi)	
		>3.45 to 6.89 MPa	0.00056 MPa	
		(>500 to 1000 psi)	(0.081 psi)	
		>6.89 to 13.79 MPa	0.0011 MPa	
		(>1000 to 2000 psi)	(0.16 psi)	
		>13.79 to 20.68 MPa	0.0017 MPa	
		(>2000 to 3000 psi)	(0.24 psi)	
		>20.68 to 27.58 MPa	0.0022 MPa	
		(>3000 to 4000 psi)	(0.32 psi)	
		>27.58 to 34.47 MPa	0.0028 MPa	
		(>4000 to 5000 psi)	(0.41 psi)	
		>34.47 to 41.37 MPa	0.0034 MPa	
		(>5000 to 6000 psi)	(0.49 psi)	
		>41.37 to 48.26 MPa	0.0039 MPa	
		(>6000 to 7000 psi)	(0.57 psi)	
		>48.26 to 55.16 MPa	0.0045 MPa	
		(>7000 to 8000 psi)	(0.65 psi)	
		>55.16 to 62.05 MPa	0.0050 MPa	
		(>8000 to 9000 psi)	(0.73 psi)	
		>62.05 to 68.95 MPa	0.0056 MPa	
		(>9000 to 10000 psi)	(0.81 psi)	
	Pressure gauges	0 to 10 kPa	0.012 kPa	SMCS-MCP-927 Onsite Calibration
		(0 to 1.45 psi)	(0.0017 psi)	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
	(On-site calibration)	>10 to 20 kPa	0.015 kPa	
		(>1.45 to 2.90 psi)	(0.0022 psi)	
		>20 to 40 kPa	0.016 kPa	
		(>2.90 to 5.80 psi)	(0.0023 psi)	
		>40 to 60 kPa	0.019 kPa	
		(>5.80 to 8.70 psi)	(0.0028 psi)	
		>60 to 70 kPa	0.021 kPa	
		(>8.70 to 10.15 psi)	(0.0030 psi)	
		>70 to 80 kPa	0.022 kPa	
		(>10.15 to 11.60 psi)	(0.0032 psi)	
		>80 to 100 kPa	0.024 kPa	
		(>11.60 to 14.5 psi)	(0.0035 psi)	
		>100 to 700 kPa	0.051 kPa	
		(>14.5 to 101.53 psi)	(0.0074 psi)	
		>700 to 1861.59 kPa	0.088 kPa	
		(>101.53 to 270 psi)	(0.013 psi)	
		>1861.59 to 2068.43 kPa	0.15 kPa	
		(>270 to 300 psi)	(0.022 psi)	
		>2068.43 to 6205.28 kPa	0.88 kPa	
		(>300 to 900 psi)	(0.13 psi)	
		>6.20 to 20.68 MPa	0.0015 MPa	
		(>900 to 3000 psi)	(0.22 psi)	
		>20.68 to 27.58 MPa	0.0028 MPa	
		(>3000 to 4000 psi)	(0.41 psi)	
		>27.58 to 34.47 MPa	0.0035 MPa	
		(>4000 to 5000 psi)	(0.51 psi)	
		>34.47 to 41.37 MPa	0.0042 MPa	
		(>5000 psi to 6000 psi)	(0.61 psi)	
		>41.37 to 48.26 MPa	0.0049 MPa	
		(>6000 to 7000 psi)	(0.71 psi)	





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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>48.26 to 55.16 MPa (>7000 to 8000 psi)	0.0063 MPa (0.91 psi)	
		>55.16 to 62.05 MPa (>8000 to 9000 psi)	0.0069 MPa (1.0 psi)	
		>62.05 to 68.95 MPa (>9000 to 10000 psi)	0.0083 MPa (1.2 psi)	
Vacuum Gauges	Vacuum Gauges	-5 to 0 kPa (-1.48 to 0 inHg)	0.011 kPa (0.0032 inHg)	SMCS-MCP-928 In-house Calibration Onsite Calibration
		< -5 to -10 kPa (< -1.48 to -2.95 inHg)	0.013 kPa (0.0038 inHg)	
		< -10 to -30 kPa (< -2.95 to -8.85 inHg)	0.016 kPa (0.0047 inHg)	
		< -30 kPa to -40 kPa (< -8.85 to -11.80 inHg)	0.017 kPa (0.0050 inHg)	
		< -40 to -60 kPa (< -11.80 to -17.70 inHg)	0.020 kPa (0.0059 inHg)	
		< -60 to -70 kPa (< -17.70 to -20.65 inHg)	0.022 kPa (0.0065 inHg)	
		< -70 to -90 kPa (< -20.65 to -26.55 inHg)	0.023 kPa (0.0068 inHg)	
		< -90 to -95 kPa (< -26.55 to -28 inHg)	0.043 kPa (0.013 inHg)	
Pressure Transducers and Transmitters	Pressure Transducers and Transmitters	0 to 10 kPa (0 to 1.45 psi)	0.012 kPa (0.0017 psi)	SMCS-MCP-934 In-house Calibration
		>10 to 20 kPa (>1.45 to 2.90 psi)	0.015 kPa (0.0022 psi)	
		>20 to 40 kPa	0.016 kPa	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		(>2.90 to 5.80 psi)	(0.0023 psi)	
		>40 to 60 kPa	0.019 kPa	
		(>5.80 to 8.70 psi)	(0.0028 psi)	
		>60 to 70 kPa	0.021 kPa	
		(>8.70 to 10.15 psi)	(0.0030 psi)	
		>70 to 80 kPa	0.022 kPa	
		(>10.15 to 11.60 psi)	(0.0032 psi)	
		>80 to 100 kPa	0.024 kPa	
		(>11.60 to 14.5 psi)	(0.0035 psi)	
		>100 to 700 kPa	0.051 kPa	
		(>14.5 to 101.53 psi)	(0.0074 psi)	
		>700 to 723.95 kPa	0.063 kPa	
		(>101.53 to 105 psi)	(0.0092 psi)	
		>723.95 to 1861.59 kPa	0.088 kPa	
		(>105 to 270 psi)	(0.013 psi)	
		>1861.59 to 2068.43 kPa	0.15 kPa	
		(>270 to 300 psi)	(0.022 psi)	
		>2068.43 to 2413.17 kPa	0.20 kPa	
		(>300 to 350 psi)	(0.029 psi)	
		>2413.17 to 2757.90	0.23 kPa	
		(>350 to 400 psi)	(0.033 psi)	
		>2757.90 to 3102.64 kPa	0.26 kPa	
		(>400 to 450 psi)	(0.037 psi)	
		>3102.64 to 3447.38 kPa	0.28 kPa	
		(>450 to 500 psi)	(0.041 psi)	
		>3.45 to 6.89 MPa	0.00056 MPa	
		(>500 to 1000 psi)	(0.081 psi)	
		>6.89 to 13.79 MPa	0.0011 MPa	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		(>1000 to 2000 psi)	(0.16 psi)	
		>13.79 to 20.68 MPa	0.0017 MPa	
		(>2000 to 3000 psi)	(0.24 psi)	
		>20.68 to 27.58 MPa	0.0022 MPa	
		(>3000 to 4000 psi)	(0.32 psi)	
		>27.58 to 34.47 MPa	0.0028 MPa	
		(>4000 to 5000 psi)	(0.41 psi)	
		>34.47 to 41.37 MPa	0.0033 MPa	
		(>5000 to 6000 psi)	(0.49 psi)	
		>41.37 to 48.26 MPa	0.0039 MPa	
		(>6000 to 7000 psi)	(0.57 psi)	
		>48.26 to 55.16 MPa	0.0045 MPa	
		(>7000 to 8000 psi)	(0.65 psi)	
		>55.16 to 62.05 MPa	0.0050 MPa	
		(>8000 to 9000 psi)	(0.73 psi)	
		>62.05 to 68.95 MPa	0.0056 MPa	
		(>9000 to 10000 psi)	(0.81 psi)	
	Pressure transducers and transmitters  (On-site calibration)	0 to 10 kPa	0.012 kPa	SMCS-MCP-927 Onsite Calibration
		(0 to 1.45 psi)	(0.0017 psi)	
		>10 to 20 kPa	0.015 kPa	
		(>1.45 to 2.90 psi)	(0.0022 psi)	
		>20 to 40 kPa	0.016 kPa	
		(>2.90 to 5.80 psi)	(0.0023 psi)	
		>40 to 60 kPa	0.019 kPa	
		(>5.80 to 8.70 psi)	(0.0028 psi)	
		>60 to 70 kPa	0.021 kPa	
		(>8.70 to 10.15 psi)	(0.0030 psi)	
		>70 to 80 kPa	0.022 kPa	
		(>10.15 to 11.60 psi)	(0.0032 psi)	
		>80 to 100 kPa	0.024 kPa	
		(>11.60 to 14.5 psi)	(0.0035 psi)	
		>100 to 700 kPa	0.051 kPa	
		(>14.5 to 101.53 psi)	(0.0074 psi)	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>700 to 1861.59 kPa	0.088 kPa	
		(>101.53 to 270 psi)	(0.013 psi)	
		>1861.59 to 2068.43 kPa	0.15 kPa	
		(>270 to 300 psi)	(0.022 psi)	
		>2068.43 to 6205.28 kPa	0.88 kPa	
		(>300 to 900 psi)	(0.13 psi)	
		>6.20 to 20.68 MPa	0.0015 MPa	
		(>900 to 3000 psi)	(0.22 psi)	
		>20.68 to 27.58 MPa	0.0028 MPa	
		(>3000 to 4000 psi)	(0.41 psi)	
		>27.58 to 34.47 MPa	0.0035 MPa	
		(>4000 to 5000 psi)	(0.51 psi)	
		>34.47 to 41.37 MPa	0.0042 MPa	
		(>5000 psi to 6000 psi)	(0.61 psi)	
		>41.37 to 48.26 MPa	0.0049 MPa	
		(>6000 to 7000 psi)	(0.71 psi)	
		>48.26 to 55.16 MPa	0.0063 MPa	
		(>7000 to 8000 psi)	(0.91 psi)	
		>55.16 to 62.05 MPa	0.0069 MPa	
		(>8000 to 9000 psi)	(1.0 psi)	
		>62.05 to 68.95 MPa	0.0083 MPa	
		(>9000 to 10000 psi)	(1.2 psi)	
Pressure Recorders	Pressure Recorders	0 to 10 kPa	0.012 kPa	SMCS-MCP-921 In-house Calibration
		(0 to 1.45 psi)	(0.0017 psi)	
		>10 to 20 kPa	0.015 kPa	
		(>1.45 to 2.90 psi)	(0.0022 psi)	
		>20 to 40 kPa	0.016 kPa	
		(>2.90 to 5.80 psi)	(0.0023 psi)	
		>40 to 60 kPa	0.019 kPa	
		(>5.80 to 8.70 psi)	(0.0028 psi)	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>60 to 70 kPa (>8.70 to 10.15 psi)	0.021 kPa (0.0030 psi)	
		>70 to 80 kPa (>10.15 to 11.60 psi)	0.022 kPa (0.0032 psi)	
		>80 to 100 kPa (>11.60 to 14.5 psi)	0.024 kPa (0.0035 psi)	
		>100 to 700 kPa (>14.5 to 101.53 psi)	0.051 kPa (0.0074 psi)	
		>700 to 723.95 kPa (>101.53 to 105 psi)	0.063 kPa (0.0092 psi)	
		>723.95 to 1861.59 kPa (>105 to 270 psi)	0.088 kPa (0.013 psi)	
		>1861.59 to 2068.43 kPa (>270 to 300 psi)	0.15 kPa (0.022 psi)	
		>2068.43 to 2413.17 kPa (>300 to 350 psi)	0.20 kPa (0.029 psi)	
		>2413.17 to 2757.90 kPa (>350 to 400 psi)	0.23 kPa (0.033 psi)	
		>2757.90 to 3102.64 kPa (>400 to 450 psi)	0.26 kPa (0.037 psi)	
		>3102.64 to 3447.38 kPa (>450 to 500 psi)	0.28 kPa (0.041 psi)	
		>3.45 to 6.89 MPa (>500 to 1000 psi)	0.00056 MPa (0.081 psi)	
		>6.89 to 13.79 MPa (>1000 to 2000 psi)	0.0011 MPa (0.16 psi)	
		>13.79 to 20.68 MPa (>2000 to 3000 psi)	0.0017 MPa (0.24 psi)	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>20.68 to 27.58 MPa (>3000 to 4000 psi)	0.0022 MPa (0.32 psi)	
		>27.58 to 34.47 MPa (>4000 to 5000 psi)	0.0028 MPa (0.41 psi)	
		>34.47 to 41.37 MPa (>5000 to 6000 psi)	0.0034 MPa (0.49 psi)	
		>41.37 to 48.26 MPa (>6000 to 7000 psi)	0.0039 MPa (0.57 psi)	
		>48.26 to 55.16 MPa (>7000 to 8000 psi)	0.0045 MPa (0.65 psi)	
		>55.16 to 62.05 MPa (>8000 to 9000 psi)	0.0050 MPa (0.73 psi)	
		>62.05 to 68.95 MPa (>9000 to 10000 psi)	0.0056 MPa (0.81 psi)	
	Pressure Recorders	0 to 10 kPa (0 to 1.45 psi)	0.012 kPa (0.0017 psi)	SMCS-MCP-927 Onsite Calibration
		>10 to 20 kPa (>1.45 to 2.90 psi)	0.015 kPa (0.0022 psi)	
		>20 to 40 kPa (>2.90 to 5.80 psi)	0.016 kPa (0.0023 psi)	
		>40 to 60 kPa (>5.80 to 8.70 psi)	0.019 kPa (0.0028 psi)	
		>60 to 70 kPa (>8.70 to 10.15 psi)	0.021 kPa (0.0030 psi)	
		>70 to 80 kPa (>10.15 to 11.60 psi)	0.022 kPa (0.0032 psi)	
		>80 to 100 kPa (>11.60 to 14.5 psi)	0.024 kPa (0.0035 psi)	
		>100 to 700 kPa (>14.5 to 101.53 psi)	0.051 kPa (0.0074 psi)	
		>700 to 1861.59 kPa (>101.53 to 270 psi)	0.088 kPa (0.013 psi)	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>1861.59 to 2068.43 kPa	0.15 kPa	
		(>270 to 300 psi)	(0.022 psi)	
		>2068.43 to 6205.28 kPa	0.88 kPa	
		(>300 to 900 psi)	(0.13 psi)	
		>6.20 to 20.68 MPa	0.0015 MPa	
		(>900 to 3000 psi)	(0.22 psi)	
		>20.68 to 27.58 MPa	0.0028 MPa	
		(>3000 to 4000 psi)	(0.41 psi)	
		>27.58 to 34.47 MPa	0.0035 MPa	
		(>4000 to 5000 psi)	(0.51 psi)	
		>34.47 to 41.37 MPa	0.0042 MPa	
		(>5000 psi to 6000 psi)	(0.61 psi)	
		>41.37 to 48.26 MPa	0.0049 MPa	
		(>6000 to 7000 psi)	(0.71 psi)	
		>48.26 to 55.16 MPa	0.0063 MPa	
		(>7000 to 8000 psi)	(0.91 psi)	
		>55.16 to 62.05 MPa	0.0069 MPa	
		(>8000 to 9000 psi)	(1.0 psi)	
		>62.05 to 68.95 MPa	0.0083 MPa	
		(>9000 to 10000 psi)	(1.2 psi)	
Pressure Control Devices	Pressure Control Devices	0 to 10 kPa	0.012 kPa	SMCS-MCP-931 In-house Calibration On-site Calibration
		(0 to 1.45 psi)	(0.0017 psi)	
		>10 to 20 kPa	0.015 kPa	
		(> 1.45 to 2.90 psi)	(0.0022 psi)	
		>20 to 40 kPa	0.016 kPa	
		(> 2.90 to 5.80 psi)	(0.0023 psi)	
		> 40 to 60 kPa	0.019 kPa	
		(> 5.80 to 8.70 psi)	(0.0028 psi)	
		>60 to 70 kPa	0.021 kPa	
		(> 8.70 to 10.15 psi)	(0.0030 psi)	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>70 to 80 kPa	0.022 kPa	
		(>10.15 to 11.60 psi)	(0.0032 psi)	
		>80 to 100 kPa	0.024 kPa	
		(>11.60 to 14.5 psi)	(0.0035 psi)	
		>100 to 700 kPa	0.051 kPa	
		(>14.5 to 101.53 psi)	(0.0074 psi)	
		> 700 to 1861.59 kPa	0.088 kPa	
		(>101.53 to 270 psi)	(0.013 psi)	
		>1861.59 to 2068.43 kPa	0.15 kPa	
		(>270 to 300 psi)	(0.022 psi)	
		>2068.43 to 6205.28 kPa	0.88 kPa	
		(>300 to 900 psi)	(0.13 psi)	
		>6.20 to 20.68 MPa	0.0015 MPa	
		(> 900 to 3000 psi)	(0.22 psi)	
		>20.68 to 27.58 MPa	0.0028 MPa	
		(>3000 to 4000 psi)	(0.41 psi)	
		>27.58 to 34.47 MPa	0.0035 MPa	
		(> 4000 to 5000 psi)	(0.51 psi)	
		>34.47 to 41.37 MPa	0.0042 MPa	
		(> 5000 to 6000 psi)	(0.61 psi)	
		>41.37 to 48.26 MPa	0.0049 MPa	
		(>6000 to 7000 psi)	(0.71 psi)	
		>48.26 to 55.16 MPa	0.0063 MPa	
		(>7000 to 8000 psi)	(0.91 psi)	
		>55.16 to 62.05 MPa	0.0069 MPa	
		(> 8000 to 9000 psi)	(1.0 psi)	
		>62.05 to 68.95 MPa	0.0083 MPa	
		(>9000 to 10000 psi)	(1.2 psi)	
Manometers	Manometers	0 to 10 kPa	0.012 kPa	SMCS-MCP-929 In-house Calibration
		(0 to 1.45 psi)	(0.0017 psi)	





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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>10 to 20 kPa	0.015 kPa	On-site Calibration
		(>1.45 to 2.90 psi)	(0.0022 psi)	
		>20 to 40 kPa	0.016 kPa	
		(> 2.90 to 5.80 psi)	(0.0023 psi)	
		>40 to 60 kPa	0.019 kPa	
		(> 5.80 to 8.70 psi)	(0.0028 psi)	
		>60 to 70 kPa	0.021 kPa	
		(> 8.70 to 10.15 psi)	(0.0030 psi)	
		>70 to 80 kPa	0.022 kPa	
		(>10.15 to 11.60 psi)	(0.0032 psi)	
		>80 to 100 kPa	0.024 kPa	
		(>11.60 to 14.5 psi)	(0.0035 psi)	
Speed Measuring Devices	Tachometers	>100 to 700 kPa	0.051 kPa	SMCS-MCP-980 In-house Calibration On-site Calibration
		(>14.5 to 101.53 psi)	(0.0074 psi)	
		up to 480 rpm	0.0099 rpm	
		> 480 rpm to 960 rpm	0.0099 rpm	
		> 960 rpm to 1920 rpm	0.099 rpm	
		> 1920 rpm to 3840 rpm	0.099 rpm	
		> 3840 rpm to 7680 rpm	0.099 rpm	
		> 7680 rpm to 15360 rpm	0.99 rpm	
		> 15360 rpm to 30720 rpm	0.99 rpm	
		> 30720 rpm to 61440 rpm	0.99 rpm	
		> 61440 rpm to 99999 rpm	0.99 rpm	
		up to 480 rpm	0.058 rpm	SMCS-MCP-953



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Calibration				
Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
Centrifuges and Other Rotational Speed Measuring Devices	Centrifuges and Other Rotational Speed Measuring Devices	> 480 rpm to 960 rpm	0.058 rpm	In-house Calibration On-site Calibration
		> 960 rpm to 1920 rpm	0.099 rpm	
		> 1920 rpm to 3840 rpm	0.099 rpm	
		> 3840 rpm to 7680 rpm	0.099 rpm	
		> 7680 rpm to 15360 rpm	0.81 rpm	
		> 15360 rpm to 30720 rpm	0.81 rpm	
		> 30720 rpm to 61440 rpm	0.81 rpm	
		> 61440 rpm to 99999 rpm	0.81 rpm	
Resistors, Resistance Boxes and Potential Dividers				
Resistors and Resistance Boxes	Resistors and Resistance Boxes	0 to 100 Ω	0.0014 Ω	SMCS-MCP-960 In-house Calibration On-site Calibration
		>100 Ω to 1 kΩ	0.000037 kΩ	
		>1 kΩ to 10 kΩ	0.00030 kΩ	
		>10 kΩ to 100 kΩ	0.0030 kΩ	
		>100 kΩ to 1 MΩ	0.000033 MΩ	
		>1MΩ to 10 MΩ	0.0012 MΩ	
		>10MΩ to 100 MΩ	0.040 MΩ	
Electrical Instrument Calibrators				
Measure functions	DC Voltage	0 to 202 mV	0.0046 mV	SMCS-MCP-981 In-house Calibration
		0.2 to 2.02 V	0.000077 V	
		2V to 20.2 V	0.00047 V	
		20V to 202V	0.0046 V	
		200 V to 2025 V	0.035 V	
	AC Voltage	0 to 202 mV		
		10Hz to 44 Hz	0.052 mV	
		45 Hz to 1.999 kHz	0.029 mV	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		2kHz to 20kHz	0.22 mV	
		0.2 V to 2.02 V		
		10Hz to 44 Hz	0.00047 V	
		45 Hz to 1.999 kHz	0.00034 V	
		2kHz to 19.999kHz	0.00059 V	
		20 kHz to 100 kHz	0.0039 V	
		2 V to 20.2 V		
		10Hz to 44 Hz	0.0046 V	
		45 Hz to 1.999 kHz	0.0033 V	
		2kHz to 19.999kHz	0.0061 V	
		20 kHz to 100 kHz	0.042 V	
		20 V to 202 V		
		40 Hz to 1.999 kHz	0.036 V	
		2 kHz to 20 kHz	0.066 V	
		200 V to 1020 V		
		40 Hz to 1.999 kHz	0.24 V	
	DC Current	2kHz to 10kHz	0.54 V	
		0 to 202 $\mu$ A	0.023 $\mu$ A	
		0.2 to 2.02 mA	0.00058 mA	
		2 to 20.2 mA	0.0013 mA	
		20 to 202 mA	0.012 mA	
		0.2 to 2.02 A	0.00061 A	
		2 to 22 A	0.0023 A	
	AC Current	0 to 202 $\mu$ A		
		10Hz to 44 Hz	0.48 $\mu$ A	
		45 Hz to 1.999 kHz	0.36 $\mu$ A	
		2kHz to 10kHz	0.60 $\mu$ A	
		0.2 mA to 2.02mA		
		10Hz to 44 Hz	0.00090 mA	
		45 Hz to 1.999 kHz	0.00063 mA	
		2kHz to 10kHz	0.0010 mA	
		2 mA to 20.2 mA		



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		10Hz to 44 Hz	0.0067 mA	
		45 Hz to 1.999 kHz	0.0051 mA	
		2kHz to 10kHz	0.0092 mA	
		20 mA to 202 mA		
		10Hz to 44 Hz	0.067 mA	
		45 Hz to 1.999 kHz	0.051 mA	
		2kHz to 10kHz	0.092 mA	
		0.2A to 2.02 A		
		10Hz to 44 Hz	0.00075 A	
		45 Hz to 2 kHz	0.00067A	
		2A to 22 A		
		10Hz to 44 Hz	0.015 A	
		45 Hz to 200 Hz	0.010 A	
		200 Hz to 1 kHz	0.014 A	
	Resistance, 2-Wire	0 $\Omega$	0.0058 $\Omega$	
		10 $\Omega$	0.013 $\Omega$	
		100 $\Omega$	0.016 $\Omega$	
		1 k $\Omega$	0.00013 k $\Omega$	
		10 k $\Omega$	0.0012 k $\Omega$	
		100 k $\Omega$	0.012 k $\Omega$	
		1 M $\Omega$	0.00023 M $\Omega$	
		10 M $\Omega$	0.0074 M $\Omega$	
		100 M $\Omega$	0.76 M $\Omega$	
	Resistance, 4-Wire	0 $\Omega$	0.0058 $\Omega$	
		10 $\Omega$	0.013 $\Omega$	
		100 $\Omega$	0.016 $\Omega$	
		1 k $\Omega$	0.00013 k $\Omega$	
		10 k $\Omega$	0.0012 k $\Omega$	
		100 k $\Omega$	0.012 k $\Omega$	
	Frequency	0 to 1 Hz	0.000062 kHz	
		1 Hz to 10 Hz	0.00024 kHz	
		10 Hz to 100 Hz	0.0023 Hz	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		100 Hz to 1 kHz	0.000062 kHz	
		1 kHz to 10 kHz	0.00024 kHz	
		10 kHz to 100 kHz	0.0023 kHz	
		100 kHz to 1 MHz	0.000062 MHz	
		1 MHz to 10MHz	0.00024 MHz	
		10 MHz to 100 MHz	0.023 MHz	
	Thermocouple, Type J	-210 °C to -100 °C	0.27 °C	
		-100 °C to -30 °C	0.13 °C	
		-30 °C to 150 °C	0.10 °C	
		150 °C to 760 °C	0.16 °C	
		760 °C to 1200 °C	0.22 °C	
	Thermocouple, Type K	-200 °C to -100 °C	0.31 °C	
		-100 °C to -25 °C	0.17 °C	
		-25 °C to 120 °C	0.13 °C	
		120 °C to 1000 °C	0.23 °C	
		1000 °C to 1370 °C	0.30 °C	
	Thermocouple, Type T	-250 °C to -150 °C	0.69 °C	
		-150 °C to 0 °C	0.12 °C	
		0 °C to 120 °C	0.10 °C	
		120 °C to 400 °C	0.13 °C	
	Thermocouple, Type R	0 °C to 250 °C	0.92 °C	
		250 °C to 1000 °C	0.51 °C	
		1000 °C to 1760 °C	0.59 °C	
	Thermocouple, Type S	0 °C to 250 °C	0.92 °C	
		250 °C to 1000 °C	0.51 °C	
		1000 °C to 1760 °C	0.59 °C	
	Thermocouple, Type B	600 °C to 800 °C	0.84 °C	
		800 °C to 1000 °C	0.75 °C	
		1000 °C to 1550 °C	0.62 °C	
		1550 °C to 1820 °C	0.64 °C	
	Thermocouple, Type N	-200 °C to -100 °C	0.49 °C	
		-100 °C to -25 °C	0.23 °C	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		-25 °C to 120 °C	0.18 °C	
		120 °C to 410 °C	0.17 °C	
		410 °C to 1300 °C	0.28 °C	
	Thermocouple, Type E	-250 °C to -100 °C	0.58 °C	
		-100 °C to -25 °C	0.12 °C	
		-25 °C to 350 °C	0.10 °C	
		350 °C to 650 °C	0.14 °C	
		650 °C to 1000 °C	0.17 °C	
	Thermocouple, Type L	-200 °C to -100 °C	0.39 °C	
		-100 °C to 800 °C	0.38 °C	
		800 °C to 900 °C	0.39 °C	
	Thermocouple, Type U	-200 °C to 0 °C	0.49 °C	
		0 °C to 600 °C	0.35 °C	
	Thermocouple, Type C	0 °C to 150 °C	0.36 °C	
		150 °C to 650 °C	0.31 °C	
		650 °C to 1000 °C	0.37 °C	
		1000 °C to 1800 °C	0.54 °C	
		1800 °C to 2316 °C	0.79 °C	
Source functions	DC Voltage	0 to 100 mV	0.0040 mV	SMCS-MCP-981 In-house Calibration
		100 mV to 1 V	0.000059 V	
		1 V to 10 V	0.00011 V	
		10 V to 100 V	0.0013 V	
		100 V to 1000V	0.018 V	
	DC Current	0 to 10 mA	0.0023 mA	
		10 mA to 100 mA	0.013 mA	
		100 mA to 1 A	0.00026 mA	
		1 A to 3 A	0.0024 mA	
	Resistance, 2-Wire	0 Ω to 100 Ω	0.0048 Ω	
		100 Ω to 1 kΩ	0.000025 kΩ	
		1 kΩ to 10 kΩ	0.00025 kΩ	
		10 kΩ to 100 kΩ	0.0025 kΩ	
		100 kΩ to 1 MΩ	0.000025 MΩ	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
	Resistance, 4-Wire	1 MΩ to 10 MΩ	0.00067 MΩ	
		10 MΩ to 100 MΩ	0.11 MΩ	
		0 Ω to 100 Ω	0.0048 Ω	
		100 Ω to 1 kΩ	0.000025 kΩ	
		1 kΩ to 10 kΩ	0.00025 kΩ	
		10 kΩ to 100 kΩ	0.0025 kΩ	
		100 kΩ to 1 MΩ	0.000025 MΩ	
		1 MΩ to 10 MΩ	0.00067 MΩ	
		10 MΩ to 100 MΩ	0.11 MΩ	
	Frequency	3 Hz – 5 Hz	0.0035 Hz	
		5 Hz – 10 Hz	0.0029 Hz	
		10 Hz – 40 Hz	0.0035 Hz	
		40 Hz – 300 Hz	0.0046 Hz	
	Thermocouple, Type J	-210 °C to -100 °C	0.27 °C	
		-100 °C to -30 °C	0.13 °C	
		-30 °C to 150 °C	0.10 °C	
		150 °C to 760 °C	0.16 °C	
		760 °C to 1200 °C	0.22 °C	
	Thermocouple, Type K	-200 °C to -100 °C	0.31 °C	
		-100 °C to -25 °C	0.17 °C	
		-25 °C to 120 °C	0.13 °C	
		120 °C to 1000 °C	0.23 °C	
		1000 °C to 1370 °C	0.30 °C	
	Thermocouple, Type T	-250 °C to -150 °C	0.69 °C	
		-150 °C to 0 °C	0.12 °C	
		0 °C to 120 °C	0.10 °C	
		120 °C to 400 °C	0.13 °C	
	Thermocouple, Type R	0 °C to 250 °C	0.92 °C	
		250 °C to 1000 °C	0.51 °C	
		1000 °C to 1760 °C	0.59 °C	
	Thermocouple, Type S	0 °C to 250 °C	0.92 °C	
		250 °C to 1000 °C	0.51 °C	
		1000 °C to 1760 °C	0.59 °C	



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#### Calibration

Calibration					
Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard	
	Thermocouple, Type B	600 °C to 800 °C	0.84 °C		
		800 °C to 1000 °C	0.75°C		
		1000 °C to 1550 °C	0.62 °C		
		1550 °C to 1820 °C	0.64 °C		
	Thermocouple, Type N	-200 °C to -100 °C	0.49 °C		
		-100 °C to -25 °C	0.23 °C		
		-25 °C to 120 °C	0.18 °C		
		120 °C to 410 °C	0.17 °C		
		410 °C to 1300 °C	0.28 °C		
		Thermocouple, Type E	-250 °C to -100 °C		0.58 °C
			-100 °C to -25 °C		0.12 °C
	-25 °C to 350 °C		0.10 °C		
	350 °C to 650 °C		0.14 °C		
	650 °C to 1000 °C		0.17 °C		
	Thermocouple, Type L	-200 °C to -100 °C	0.39 °C		
		-100 °C to 800 °C	0.38 °C		
		800 °C to 900 °C	0.39 °C		
	Thermocouple, Type U	-200 °C to 0 °C	0.49 °C		
		0 °C to 600 °C	0.35 °C		
	Thermocouple, Type C	0 °C to 150 °C	0.36 °C		
		150 °C to 650 °C	0.31 °C		
		650 °C to 1000 °C	0.37°C		
		1000 °C to 1800 °C	0.54 °C		
		1800 °C to 2316°C	0.79 °C		
Electrical Indicating and Recording Instruments					
Digital multimeters up to 4 ¾ digits	DC Voltage	0 to 202 mV	0.0046 mV	SMCS-MCP-982 In-house Calibration	
		0.2 to 2.02 V	0.000077 V		
		2 V to 20.2 V	0.00047 V		
		20 V to 202 V	0.0046 V		
		200 V to 1025 V	0.035 V		
	AC Voltage	0 to 202 mV			
		10Hz to 44 Hz	0.052 mV		
		45 Hz to 1.999 kHz	0.029 mV		





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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		2kHz to 20kHz	0.22 mV	
		0.2 V to 2.02 V		
		10Hz to 44 Hz	0.00047 V	
		45 Hz to 1.999 kHz	0.00034 V	
		2kHz to 19.999kHz	0.00059 V	
		20 kHz to 100 kHz	0.0039 V	
		2 V to 20.2 V		
		10Hz to 44 Hz	0.0046 V	
		45 Hz to 1.999 kHz	0.0033 V	
		2kHz to 19.999kHz	0.0061 V	
		20 kHz to 100 kHz	0.042 V	
		20 V to 202 V		
		40 Hz to 1.999 kHz	0.036 V	
		2kHz to 20 kHz	0.066 V	
		200 V to 1020 V		
		40 Hz to 1.999 kHz	0.24 V	
		2 Hz to 10 kHz	0.54 V	
	DC Current	0 to 202 $\mu$ A	0.023 $\mu$ A	
		0.2 to 2.02 mA	0.00058 mA	
		2 to 20.2 mA	0.0013 mA	
		20 to 202 mA	0.012 mA	
		0.2 to 2.02 A	0.00061 A	
		2 to 22A	0.0023 A	
	AC Current	0 to 202 $\mu$ A		
		10Hz to 44 Hz	0.48 $\mu$ A	
		45 Hz to 1.999 kHz	0.36 $\mu$ A	
		2kHz to 10kHz	0.60 $\mu$ A	
		0.2 mA to 2.02mA		
		10Hz to 44 Hz	0.00090 mA	
		45 Hz to 1.999 kHz	0.00063 mA	
		2kHz to 10kHz	0.0010 mA	
		2 mA to 20.2 mA		
		10Hz to 44 Hz	0.0067 mA	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		45 Hz to 1.999 kHz	0.0051 mA	
		2kHz to 10kHz	0.0092 mA	
		20 mA to 202 mA		
		10Hz to 44 Hz	0.067 mA	
		45 Hz to 1.999 kHz	0.051 mA	
		2kHz to 10kHz	0.092 mA	
		0.2A to 2.02 A		
		10Hz to 44 Hz	0.00075 A	
		45 Hz to 2 kHz	0.00067A	
		2A to 22 A		
		10Hz to 44 Hz	0.015 A	
		45Hz to 200 Hz	0.010 A	
		200 Hz to 1 kHz	0.014 A	
	Resistance, 2 wire	0 $\Omega$	0.0058 $\Omega$	
		10 $\Omega$	0.013 $\Omega$	
		100 $\Omega$	0.016 $\Omega$	
		1 k $\Omega$	0.00013 k $\Omega$	
		10 k $\Omega$	0.0012 k $\Omega$	
		100 k $\Omega$	0.012 k $\Omega$	
		1 M $\Omega$	0.00023 M $\Omega$	
		10 M $\Omega$	0.0074 M $\Omega$	
		100 M $\Omega$	0.76 M $\Omega$	
	Resistance, 4 wire	0 $\Omega$	0.0058 $\Omega$	
		10 $\Omega$	0.013 $\Omega$	
		100 $\Omega$	0.016 $\Omega$	
		1 k $\Omega$	0.00013 k $\Omega$	
		10 k $\Omega$	0.0012 k $\Omega$	
		100 k $\Omega$	0.012 k $\Omega$	
	Frequency	0 to 1 Hz	0.000062 kHz	
		1 Hz to 10 Hz	0.00024 kHz	
		10 Hz to 100 Hz	0.0023 Hz	
		100 Hz to 1 kHz	0.000062 kHz	
		1 kHz to 10 kHz	0.00024 kHz	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		10 kHz to 100 kHz	0.0023 kHz	
		100 kHz to 1 MHz	0.000062 MHz	
		1 MHz to 10MHz	0.00024 MHz	
		10 MHz to 100 MHz	0.0023 MHz	
Frequency and Time Measuring Instruments and Standard				
Tachometers	Tachometers	up to 480 rpm	0.0099 rpm	SMCS-MCP-980 In-house Calibration On-site Calibration
		> 480 rpm to 960 rpm	0.0099 rpm	
		> 960 rpm to 1920 rpm	0.099 rpm	
		> 1920 rpm to 3840 rpm	0.099 rpm	
		> 3840 rpm to 7680 rpm	0.099 rpm	
		> 7680 rpm to 15360 rpm	0.99 rpm	
		> 15360 rpm to 30720 rpm	0.99 rpm	
		> 30720 rpm to 61440 rpm	0.99 rpm	
		> 61440 rpm to 99999 rpm	0.99 rpm	
Stopwatches and Timers	Stopwatches and Timers	up to 60 min	17 ms	SMCS-MCP-944 In-house Calibration On-site Calibration
Time Interval Meters	Time Interval Meters	up to 60 min	17 ms	SMCS-MCP-944 In-house Calibration On-site Calibration
Sound Level Meters	Sound Level Meters	up to 114 dB	0.31 dB	SMCS-MCP-951 In-house Calibration On-site Calibration
Calibration of Temperature Measurement Equipment				
Rare Metal Thermocouples	Rare Metal Thermocouples	-40 °C to 0 °C	0.16°C	SMCS-MCP-972 In-house Calibration
		> 0 °C to 50 °C	0.14°C	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		> 50 °C to 100 °C	0.17°C	On-site Calibration
		> 100 °C to 150 °C	0.11°C	
		> 150 °C to 200 °C	0.11°C	
		> 200 °C to 250 °C	0.11°C	
		> 250 °C to 300 °C	0.24°C	
		> 300 °C to 350 °C	0.23°C	
		> 350 °C to 400 °C	0.24°C	
		> 400 °C to 450 °C	0.62°C	
		> 450 °C to 500 °C	0.24°C	
		> 500 °C to 550 °C	0.23°C	
Base Metal Thermocouples	Base Metal Thermocouples	-40 °C to 0 °C	0.16°C	SMCS-MCP-972 In-house Calibration On-site Calibration
		> 0 °C to 50 °C	0.14°C	
		> 50 °C to 100 °C	0.17°C	
		> 100 °C to 150 °C	0.11°C	
		> 150 °C to 200 °C	0.11°C	
		> 200 °C to 250 °C	0.11°C	
		> 250 °C to 300 °C	0.24°C	
		> 300 °C to 350 °C	0.23°C	
		> 350 °C to 400 °C	0.24°C	
		> 400 °C to 450 °C	0.24°C	
Metallic Resistance Thermometers	Metallic Resistance Thermometers	-40 °C to 0 °C	0.16°C	SMCS-MCP-973 In-house Calibration On-site Calibration
		> 0 °C to 50 °C	0.14°C	
		> 50 °C to 100 °C	0.17°C	
		> 100 °C to 150 °C	0.11°C	
		> 150 °C to 200 °C	0.11°C	
		> 200 °C to 250 °C	0.11°C	
		> 250 °C to 300 °C	0.24°C	
		> 300 °C to 350 °C	0.24°C	
		> 350 °C to 400 °C	0.24°C	
		> 400 °C to 450 °C	0.24°C	
		> 450 °C to 500 °C	0.24°C	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
Semi-Conductor Thermometers	Semi-Conductor Thermometers	> 500 °C to 550 °C	0.25°C	SMCS-MCP-904 In-house Calibration On-site Calibration
		-40 °C to 0 °C	0.16°C	
		> 0 °C to 50 °C	0.14°C	
		> 50 °C to 100 °C	0.17°C	
		> 100 °C to 150 °C	0.11°C	
		> 150 °C to 200 °C	0.11°C	
Liquid-in-glass thermometers	Liquid-in-Glass Thermometers, Immersion Type	> 200 °C to 250 °C	0.11°C	SMCS-MCP-909 In-house Calibration
		-20 °C to 0 °C	0.13°C	
		> 0 °C to 50 °C	0.15°C	
		> 50 °C to 100 °C	0.14°C	
	Liquid-in-Glass Thermometers, Air Type	> 100 °C to 150 °C	0.16°C	
		-30 °C to 0 °C	0.50°C	
Vapour Thermometers	Vapour Thermometers	> 0 °C to 50 °C	0.53°C	SMCS-MCP-903 In-house Calibration On-site Calibration
		> 50 °C to 100 °C	0.33°C	
		> 100 °C to 150 °C	0.35°C	
		-40 °C to 0 °C	0.58°C	
		> 0 °C to 50 °C	0.58°C	
		> 50 °C to 100 °C	0.58°C	
		> 100 °C to 150 °C	0.58°C	
		> 150 °C to 200 °C	0.58°C	
		> 200 °C to 250 °C	0.58°C	
		> 250 °C to 300 °C	0.62°C	
		> 300 °C to 350 °C	0.62°C	
		> 350 °C to 400 °C	0.62°C	
Filled Metal Thermometers	Filled Metal Thermometers	> 400 °C to 450 °C	0.62°C	SMCS-MCP-902 SMCS-MCP-903 In-house Calibration On-site Calibration
		> 450 °C to 500 °C	0.62°C	
		> 500 °C to 550 °C	0.62°C	
		-40 °C to 0 °C	0.58°C	
		>0 °C to 50 °C	0.58°C	
		>50 °C to 100 °C	0.58°C	
		>100 °C to 150 °C	0.58°C	
		>150 °C to 200 °C	0.58°C	
		>200 °C to 250 °C	0.58°C	



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## SCOPE OF ACCREDITATION

### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>250 °C to 300 °C	0.62°C	
		>300 °C to 350 °C	0.62°C	
		>350 °C to 400 °C	0.62°C	
		> 400 °C to 450 °C	0.62°C	
		>450 °C to 500 °C	0.62°C	
		>500 °C to 550 °C	0.62°C	
Bi-Metallic Systems	Bi-Metallic Systems, Immersion Type	-40 °C to 0 °C	0.58°C	SMCS-MCP-902 In-house Calibration On-site Calibration
		>0 °C to 50 °C	0.58°C	
		>50 °C to 100 °C	0.58°C	
		>100 °C to 150 °C	0.58°C	
		>150 °C to 200 °C	0.58°C	
		>200 °C to 250 °C	0.58°C	
		>250 °C to 300 °C	0.62°C	
		>300 °C to 350 °C	0.62°C	
		>350 °C to 400 °C	0.62°C	
		> 400 °C to 450 °C	0.62°C	
		>450 °C to 500 °C	0.62°C	
		>500 °C to 550 °C	0.62°C	
	Bi-Metallic Systems, Air Type	-30 °C to 0 °C	0.70°C	In-house Calibration SMCS-MCP-902
		>0 °C to 50 °C	0.72°C	
		>50 °C to 100 °C	0.60°C	
		>100 °C to 150 °C	0.61°C	
Digital Temperature Indicator Systems	Digital Temperature Indicator Systems, Immersion Type	-40 °C to 0 °C	0.16°C	SMCS-MCP-901 In-house Calibration On-site Calibration
		>0 °C to 50 °C	0.14°C	
		>50 °C to 100 °C	0.17°C	
		>100 °C to 150 °C	0.11°C	
		>150 °C to 200 °C	0.11°C	
		>200 °C to 250 °C	0.11°C	
		>250 °C to 300 °C	0.24°C	
		>300 °C to 350 °C	0.24°C	
		>350 °C to 400 °C	0.24°C	
		> 400 °C to 450 °C	0.24°C	
		>450 °C to 500 °C	0.24°C	

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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		>500 °C to 550 °C	0.25°C	SMCS-MCP-901 In-house Calibration
	Digital Temperature Indicator Systems, Air Type	-30 °C to 0 °C	0.35°C	
		>0 °C to 50 °C	0.23°C	
		>50 °C to 100 °C	0.17°C	
		>100 °C to 150 °C	0.21°C	
Retort Thermometers	Retort Thermometers	-40 °C to 0 °C	0.58°C	SMCS-MCP-994 In-house Calibration On-site Calibration
		> 0 °C to 50 °C	0.58°C	
		> 50 °C to 100 °C	0.58°C	
		> 100 °C to 150 °C	0.58°C	
		> 150 °C to 200 °C	0.58°C	
		> 200 °C to 250 °C	0.62°C	
		> 250 °C to 300 °C	0.62°C	
Calibration of Non-Contact Thermometers				
Non-contact thermometers	Infrared Thermometers Radiation Thermometers	-20°C to 0°C	0.81 °C	SMCS-MCP-910 In-house Calibration On-site Calibration
		>0 °C to 500 °C	1.5 °C	
	Body Temperature Thermometers Ear Thermometers	35 °C to 42 °C	1.5 °C	
Calibration of Ancillary Temperature Measuring Instruments				
Indicators, Recorders and Controllers	Indicators, Recorders and Controllers (Thermocouple)	-200 °C to 1768 °C	0.060 °C	SMCS-MCP-936 SMCS-MCP-937 SMCS-MCP-938 In-house Calibration On-site Calibration
	Indicators, Recorders and Controllers -RTD, Pt100 Ω @ 385	-200 °C to 850 °C	0.060 °C	
Temperature Transmitters	Temperature Transmitters (thermocouple)	-200 °C to 1768 °C	0.060 °C	SMCS-MCP-933 In-house Calibration On-site Calibration
	Temperature Transmitters -	-200 °C to 850 °C	0.060 °C	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
	RTD, Pt100 $\Omega$ @ 385			
Calibration of Clinical Thermometers				
Clinical thermometers	Liquid-in-Glass Thermometers	35 °C to 42 °C	0.15°C	SMCS-MCP-909 In-house Calibration
	Disposable Thermometers	35 °C to 42 °C	0.17°C	SMCS-MCP-901 In-house Calibration On-site Calibration
	Electronic Thermometers	35 °C to 42 °C	0.17°C	SMCS-MCP-901 In-house Calibration On-site Calibration
	Body Temperature Thermometers, Non-contact Ear Thermometers, Non-contact	35 °C to 42 °C	1.5°C	SMCS-MCP-910 In-house Calibration On-site Calibration
Calibration of Temperature-Controlled Enclosures				
Temperature-Controlled Enclosures	Ovens	30 °C to 100 °C	0.20 °C	SMCS-MCP-911 In-house Calibration On-site Calibration
		> 100 °C to 150 °C	0.21°C	
		> 150 °C to 200 °C	0.25°C	
		> 200 °C to 250 °C	0.32°C	
		> 250 °C to 300 °C	0.64°C	
	Furnaces	up to 400 °C	1.2°C	SMCS-MCP-914 In-house Calibration On-site Calibration
		>400 °C to 600 °C	3.1°C	
		>600 °C to 800 °C	3.3°C	
		>800 °C to 1000 °C	3.6°C	
	Liquid Baths	-40 °C to -20 °C	0.37°C	SMCS-MCP-912 In-house Calibration On-site Calibration
		> -20 °C to 0 °C	0.32°C	
		> 0 °C to 50 °C	0.32°C	
		> 50 °C to 100 °C	0.23°C	
		> 100 °C to 150 °C	0.24°C	
		> 150 °C to 200 °C	0.29°C	





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### SOUTHERN METROLOGY AND CALIBRATION SERVICES, INC.

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#### Calibration

Calibration					
Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard	
		> 200 °C to 250 °C	0.36°C	SMCS-MCP-917 In-house Calibration On-site Calibration	
		> 250 °C to 300 °C	0.62°C		
	Autoclaves and Sterilizing Ovens	ambient to 50 °C	0.32°C		
		> 50 °C to 100 °C	0.23°C		
		> 100 °C to 150 °C	0.24°C		
		> 150 °C to 200 °C	0.29°C		
		> 200 °C to 250 °C	0.36°C		
	Industrial Freezers	-30 °C to 0 °C	0.19°C	SMCS-MCP-911 In-house Calibration On-site Calibration	
	Chillers and other Cold Storages	-30 °C to 20 °C	0.19°C	SMCS-MCP-911 In-house Calibration On-site Calibration	
	Temperature Chambers	-80 °C to -60 °C	0.32°C	SMCS-MCP-911 In-house Calibration On-site Calibration	
		> -60 °C to -40 °C	0.32°C		
		> -40 °C to -30 °C	0.26°C		
		> -30 °C to 0 °C	0.19°C		
		> 0 °C to 20 °C	0.19°C		
		> 20 °C to 50 °C	0.32°C		
		> 50 °C to 100 °C	0.23°C		
		> 100 °C to 150 °C	0.24°C		
		> 150 °C to 200 °C	0.29°C		
		> 200 °C to 250 °C	0.36°C		
		> 250 °C to 300 °C	0.36°C		
	Incubators	0 °C to 50 °C	0.19°C	SMCS-MCP-911 In-house Calibration On-site Calibration	
		50 to 100 °C	0.20°C		
	Ultra Low Freezers	-80 °C to -60 °C	0.32°C	SMCS-MCP-911 In-house Calibration On-site Calibration	
		> -60 °C to -40 °C	0.32°C		
> -40 °C to -30 °C		0.26°C			
Surface Temperature Devices					
	Hot Plates Digestors	ambient to 100 °C	0.66°C	SMCS-MCP-906 In-house Calibration	
		>100 °C to 200 °C	0.66°C		



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
Surface temperature devices	Thermo Reactors	>200 °C to 300 °C	0.66°C	On-site Calibration
	COD Reactors	>300 °C to 400 °C	0.66°C	
	Heating Mantle	>400 °C to 500 °C	0.66°C	
	Dry Baths and Dry Block Heaters			
	Fat Analyzers			
	Fat Extractors			
	Fiber Analyzers			
	Moisture Analyzers			
	Protein Analyzers			

#### Hygrometry

Hygrometers	Hygrometers	20 %RH to 30 %RH	0.83% RH	SMCS-MCP-945 In-house Calibration On-site Calibration (at room condition only)
		> 30 %RH to 40 %RH	0.92% RH	
		> 40 %RH to 50 %RH	1.2% RH	
		> 50 %RH to 60 %RH	1.5% RH	
		> 60 %RH to 70 %RH	1.6% RH	
		> 70 %RH to 80 %RH	1.5% RH	
		> 80 %RH to 90 %RH	1.8% RH	
Thermohygrometers	Thermohygrometers	0 °C to 10°C	0.35°C	SMCS-MCP-945 In-house Calibration On-site Calibration (at room condition only)
		> 10 °C to 20 °C	0.34 °C	
		> 20 °C to 30 °C	0.34°C	
		> 30 °C to 40 °C	0.34°C	
		> 40 °C to 50 °C	0.33°C	
		20 %RH to 30 %RH	0.83%RH	
		> 30 %RH to 40 %RH	0.92% RH	
		> 40 %RH to 50 %RH	1.2% RH	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		> 50 %RH to 60 %RH	1.5% RH	
		> 60 %RH to 70 %RH	1.6% RH	
		> 70 %RH to 80 %RH	1.5% RH	
		> 80 %RH to 90 %RH	1.8% RH	
Humidity Chambers	Humidity Chambers	20 %RH to 30 %RH	1.3% RH	SMCS-MCP-920 In-house Calibration On-site Calibration
		>30 %RH to 40 %RH		
		>40 %RH to 50 %RH		
		>50 %RH to 60 %RH		
		>60 %RH to 70 %RH		
		>70 %RH to 80 %RH		
		>80 %RH to 90 %RH		
Temperature and Humidity Data Loggers, Air-type	Temperature and Humidity Data Loggers, Air-type	-30 °C to 0 °C	0.38°C	SMCS-MCP-907 In-house Calibration
		>0 °C to 50 °C	0.39°C	
		>50 °C to 100 °C	0.17°C	
		>100 °C to 150 °C	0.21°C	
		20 %RH to 30 %RH	0.83%RH	
		> 30 %RH to 40 %RH	0.92% RH	
		> 40 %RH to 50 %RH	1.2% RH	
		> 50 %RH to 60 %RH	1.5% RH	
		> 60 %RH to 70 %RH	1.6% RH	



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#### Calibration

Calibration				
Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		> 70 %RH to 80 %RH	1.5% RH	
		> 80 %RH to 90 %RH	1.8% RH	
Ancillary Testing Equipment for Paints and Petroleum Products				
Viscometers	Viscometers	up to 100 mPa.s	0.27 mPa.s	SMCS-MCP-968 In-house Calibration On-site Calibration
		> 100 mPa.s to 500 mPa.s	0.27 mPa.s	
		> 500 mPa.s to 1000 mPa.s	0.27 mPa.s	
		> 1000 mPa.s to 2000 mPa.s	0.28 mPa.s	
		> 2000 mPa.s to 3000 mPa.s	0.30 mPa.s	
		> 3000 mPa.s to 4000 mPa.s	0.31 mPa.s	
		> 4000 mPa.s to 5000 mPa.s	0.34 mPa.s	
		> 5000 mPa.s to 8000 mPa.s	0.42 mPa.s	
		> 8000 mPa.s to 10000 mPa.s	0.48 mPa.s	
		> 10000 mPa.s to 12000 mPa.s	0.54 mPa.s	
		> 12000 mPa.s to 15000 mPa.s	0.65 mPa.s	
		> 15000 mPa.s to 20000 mPa.s	0.83 mPa.s	
		> 20000 mPa.s to 25000 mPa.s	1.0 mPa.s	
		> 25000 mPa.s to 30000 mPa.s	1.2 mPa.s	
Viscosity Cups	Viscosity Cups	up to 100 mPa.s	0.27 mPa.s	SMCS-MCP-987



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#### Calibration

Calibration				
Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		> 100 mPa.s to 500 mPa.s	0.27 mPa.s	In-house Calibration
		> 500 mPa.s to 1000 mPa.s	0.27 mPa.s	
		> 1000 mPa.s to 2000 mPa.s	0.28 mPa.s	
		> 2000 mPa.s to 3000 mPa.s	0.30 mPa.s	
		> 3000 mPa.s to 4000 mPa.s	0.31 mPa.s	
		> 4000 mPa.s to 5000 mPa.s	0.34 mPa.s	
		> 5000 mPa.s to 8000 mPa.s	0.42 mPa.s	
		> 8000 mPa.s to 10000 mPa.s	0.48 mPa.s	
		> 10000 mPa.s to 12000 mPa.s	0.54 mPa.s	
		> 12000 mPa.s to 15000 mPa.s	0.65 mPa.s	
		> 15000 mPa.s to 20000 mPa.s	0.83 mPa.s	
		> 20000 mPa.s to 25000 mPa.s	1.0 mPa.s	
		> 25000 mPa.s to 30000 mPa.s	1.2 mPa.s	
		Photometry Equipment		
Lux and Light Meters	Lux and Light Meters	up to 300 lux	3.2% of the Reading	SMCS-MCP-970 In-house Calibration
		> 300 lux to 500 lux	3.2% of the Reading	
		> 500 lux to 1000 lux	2.8% of the Reading	



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#### Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
Spectrophotometers	Spectrophotometers	> 1000 lux to 1500 lux	2.7% of the Reading	
		> 1500 lux to 2000 lux	2.7% of the Reading	
		> 2000 lux to 3000 lux	3.6% of the Reading	
		> 3000 lux to 4000 lux	3.6% of the Reading	
		> 4000 lux to 5000 lux	3.6% of the Reading	
		Control of Wavelength	0.0050 Abs	SMCS-MCP-958 In-house Calibration On-site Calibration
		241.1 nm		
		249.9 nm		
		278.1 nm		
		287.2 nm		
		333.5 nm		
		345.4 nm		
		361.3 nm		
		385.6 nm		
		416.3 nm		
		451.4 nm		
		467.8 nm		
		485.2 nm		
		536.6 nm		
		640.5 nm		
		731.6 nm		
		740.0 nm		
		794.1 nm		
		799.0 nm		
		864.4 nm		
		Control of Absorbance	0.0050 Abs	



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#### Calibration

Calibration				
Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
		235 nm	0.0050 Abs	
		257 nm		
		313 nm		
		350 nm		
		430 nm		
		Control of Stray Light		
		220 nm		
		360 nm		
		420 nm		
Analytical and Environmental Measuring Instruments				
pH Meters	pH Meters	4 pH to 10 pH	0.015 pH	SMCS-MCP-939 In-house Calibration On-site Calibration
Conductivity Meter	Conductivity Meters	1 μS/cm to 500 ms/cm	1.2% of the reading	SMCS-MCP-940 In-house Calibration On-site Calibration
TDS Meters	TDS Meters	1 ppm to 50000 ppm	1.2% of the reading	SMCS-MCP-942 In-house Calibration On-site Calibration
Hydrometers				
Hydrometers	Density hydrometers	≥ 0.0005 g/cm <sup>3</sup>	0.00031 g/cm <sup>3</sup>	SMCS-MCP-961 In-house Calibration
	Specific gravity hydrometers	≥ 0.0005 Sp.Gr.	0.00031 Sp.Gr.	
	Alcoholometer hydrometers	≥ 1 %vol	0.5 %vol	
	Brix hydrometers	≥ 0.1 °Brix	0.05 °Brix	
	LPG hydrometers	≥ 0.0005 g/cm <sup>3</sup>	0.00031 g/cm <sup>3</sup>	
	Baume hydrometers	≥ 1 °Be	0.29 °Be	
	API hydrometers	≥ 0.1 API	0.065 API	
	Soil hydrometers	≥ 1 g/L	0.20 g/L	



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## **SCOPE OF ACCREDITATION**

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**Unit 6 and 7 Artica Commercial Building National Highway corner  
Almazora Street, Canlalay, Biñan City, Laguna**

#### **Calibration**

<b>Classification of Scopes</b>	<b>Measured quantities/ instrument</b>	<b>Range to be calibrated</b>	<b>Calibration and Measurement Capability (CMC)*</b>	<b>Standard Method/ Reference Standard</b>
	Lactometer hydrometers	$\geq 0.001$ g/mL	0.00020 g/mL	

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

**JAMES E. EMPEÑO**

Director IV

Philippine Accreditation Bureau



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