



ACAL-1-1220-254B

SCOPE OF ACCREDITATION

Acculab Calibration Laboratory Inc.

419 Chateau Verde Condominium, Gate 2 Valle Verde 1
E. Rodriguez Jr. Avenue, Ugong, Pasig City, Philippines

Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
Weighing Devices				
Precision Laboratory Balances	Precision Laboratory Balances	Up to 200 g	0.0012 g	In-house calibration/ On-site calibration
		Up to 10,000 g	0.029 g	
Industrial Balances	Industrial Balances	Up to 200 kg	0.013 kg	CALPRO-NAWI-01 Based on EURAMET cg-18 Version 4.0 (11/2015)
Industrial Weighing Balances	Industrial Weighing Balances	Up to 200 kg	0.013 kg	
Pressure and Vacuum Measuring Devices				
Pressure Gauges	Pressure Gauges	0 to 300 psi	0.3 psi	In-house calibration/ On-site calibration CALPRO-PRES-01 Based on DKD-R 6-1, Edition 03/2014
		0 to 1000 psi	3 psi	
		0 to 2000 psi	6.0 psi	
		0 to 3000 psi	8.9 psi	
		0 to 5000 psi	15 psi	
		0 to 10,000 psi	30 psi	
Vacuum Gauges	Vacuum Gauges	0 to -10 psi	0.30 psi	
Pressure Transducers	Pressure Transducers	0 to 1000 psi	3 psi	
Pressure Recorders	Pressure Recorders	0 to 2000 psi	6 psi	
		0 to 3000 psi	8.9 psi	
		0 to 5000 psi	15 psi	
		0 to 10000 psi	30 psi	
Mercury Manometers	Mercury Manometers	0 to 10 psi	0.0029 psi	
Other Liquid Manometers	Other Liquid Manometers	0 to 300 psi	0.039 psi	
		Digital Manometers	Digital Manometers	0 to 10 psi
Digital Manometers	Digital Manometers	0 to 300 psi	0.039 psi	
		Pressure Control Devices	Pressure Control Devices	0 to 10 psi
Pressure Control Devices	Pressure Control Devices	0 to 300 psi	0.039 psi	



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Electrical Indicating and Recording Instruments				
D.C. Voltmeters	D.C. Voltmeters	0 mV to 100 mV	0.0058 mV	In-house calibration By direct comparison using Multi-Product Calibrator and Reference Multimeter CALPRO-VM-01 CALPRO-AMM-01 CALPRO-OHM-01
		100 mV to 1 V	0.058 V	
		1 V to 10 V	0.000058 V	
		10 V to 100 V	0.0058 V	
		100 V to 1000V	0.00059 V	
A.C. Voltmeters	A.C. Voltmeters	0 mV to 100 mV 1 kHz	0.058 mV	
		0 mV to 100 mV 50 kHz	0.058 mV	
		100 mV to 1 V, 50 Hz	0.058 V	
		500 mV to 1 V, 1 kHz	0.058 V	
		1 V to 10 V, 1 kHz	0.0058 V	
		1 V to 10 V, 10 kHz	0.0058 V	
		10 V to 100 V, 1 kHz	0.0059 V	
		100 V to 750 V, 1 kHz	0.074 V	
		100 V to 750 V, 10 Hz	0.074 V	
D.C. Ammeters	D.C. Ammeters	0 mA to 10 mA	0.0058 mA	
		10 mA to 100 mA	0.058 mA	
		100 mA to 1 A	0.058 A	
		1 A to 10 A	0.0058 A	
A.C. Ammeters	A.C. Ammeters	0 A to 1 A, 1 kHz	0.00058 A	
		1 A to 10 A, 1 kHz	0.0058 A	
Ohmmeters	Ohmmeters	0 Ω to 100 Ω	0.058 Ω	
		100 Ω to 1k Ω	0.058 kΩ	
		1 kΩ to 10 kΩ	0.00058 kΩ	



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		10 kΩ to 100 kΩ	0.0058 kΩ	
		100 kΩ to 1 MΩ	0.0058 MΩ	
		1 MΩ to 10 MΩ	0.000058 MΩ	
		10 MΩ to 100 MΩ	0.0014 MΩ	
Digital Multimeters/ Analog Multimeter	Digital Multimeters/ Analog Multimeter (up to 4 1/2 digit)			In-house calibration By direct comparison using Multi-Product Calibrator and Reference Multimeter CALPRO-VM-01 CALPRO-AMM-01 CALPRO-OHM-01
	@ DC voltage	0 mV to 100 mV	0.0058 mV	
		100 mV to 1 V	0.058 V	
		1 V to 10 V	0.000058 V	
		10V to 100 V	0.0058 V	
		100 V to 1000 V	0.00059 V	
	@ AC voltage	0 mV to 100 mV, 1 kHz	0.058 mV	
		0 mV to 100 mV 50 kHz	0.058 mV	
		100 mV to 1 V, 50 Hz	0.058V	
		500 mV to 1 V, 1 kHz	0.058V	
		1 V to 10 V, 1 kHz	0.0058 V	
		1 V to 10 V, 10 kHz	0.0058V	
		10 V to 100 V, 1 kHz	0.0059V	
		100 V to 750 V, 1 kHz	0.074V	
		100 V to 750 V, 10 Hz	0.074V	
	@ DC ammeter	0 mA to 10mA	0.0058 mA	
		10 mA to 100 mA	0.058 mA	
		100 mA to 1 A	0.058A	
		1 A to 10 A	0.0058A	



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	@AC ammeter	0 A to 1 A, 1 kHz	0.00058A	
		1 A to 10 A, 1 kHz	0.0058A	
	@ Resistance	0 Ω to 100 Ω	0.058 Ω	
		100 Ω to 1kΩ	0.058 kΩ	
		1 kΩ to 10 kΩ	0.00058 kΩ	
		10 kΩ to 100 kΩ	0.0058 kΩ	
		100 kΩ to 1 MΩ	0.0058MΩ	
		1 MΩ to 10 MΩ	0.000058 MΩ	
		10 MΩ to 100 MΩ	0.0014 MΩ	
pH Meter	pH Meter	0 to 14 pH	0.00062 pH	In-house calibration By electrical simulation using millivolt source CALPRO-PH-02
Temperature Measurement Equipment				
Base Thermocouple	Base Thermocouple	30 °C to 400 °C	0.19 °C	In-house calibration/ On-site calibration
Metallic Resistance Thermometer	Metallic Resistance Thermometer	30 °C to 400 °C	0.19 °C	
Vapor Pressure Thermometers	Vapor Pressure Thermometers	30 °C to 400 °C	0.19 °C	By comparison with Standard Resistance Thermometer using Dry Block CALPRO-THERMO-05
Filled Metal System	Filled Metal System	30 °C to 400 °C	0.19 °C	
Bi-Metallic System	Bi-Metallic System	30 °C to 400 °C	0.19 °C	
Digital Temperature Indicator System	Digital Temperature Indicator System	30 °C to 400 °C	0.19 °C	



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Base Thermocouple	Base Thermocouple	-30 °C to 30 °C 50% Ethylene Glycol 50% Water Bath	0.15 °C	In-house calibration/ On-site calibration
Metallic Resistance Thermometer	Metallic Resistance Thermometer			
Vapor Pressure Thermometers	Vapor Pressure Thermometers	30 °C to 70 °C Water Bath	0.15 °C	By comparison with Standard Resistance Thermometer using Liquid Bath
Filled Metal System	Filled Metal System	70 °C to 130 °C Oil Bath	0.15 °C	
Bi-Metallic System	Bi-Metallic System			
Digital Temperature Indicator System	Digital Temperature Indicator System			CALPRO-THERMO-04
Ancillary temperature measuring instruments				
Indicators, Recorders and Controllers	Type K	-200 °C to 1370 °C	0.38 °C	In-house calibration/ On-site calibration
	Type J	-200 °C to 1200 °C	0.34 °C	
Temperature Transmitters (T/C and RTD)	Type T	-200 °C to 400 °C	0.34 °C	CALPRO-TC-02 By electrical simulation using Process Calibrator
	Type R	0 °C to 1700 °C	0.43 °C	
	Type B	600 °C to 1800 °C	0.43 °C	
	PT 100 (385), 4-wire	-200 °C to 800 °C	0.17 °C	CALPRO-RTD-02
Temperature Controlled Enclosures				
Ovens and Baths	Ovens and Baths	200 °C to 300 °C	0.82 °C	Permanent and On-site calibration
Incubator	Incubator	10 °C to 70 °C	0.82 °C	
Autoclaves and Sterilizing Ovens	Autoclaves and Sterilizing Ovens	30 °C to 130 °C	0.82 °C	CALPRO-CLIMATS-01



**Philippine
Accreditation
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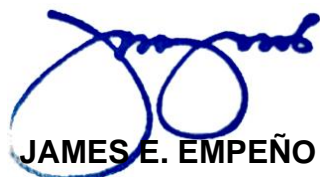
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Industrial Freezers	Industrial Freezers	-30 °C to 10 °C	0.82 °C	
Other Enclosures	Laboratory Freezer and Refrigerator	-30 °C to 20 °C	0.82 °C	
Hygrometer				
Calibration of Humidity Measuring Devices	Calibration of Humidity Measuring Devices	20 to 30 °C 40 to 80 % RH	0.65 °C 2.2 %RH	Permanent and On-site calibration CALPRO-HYGRO-01
Measurement of Relative Humidity	Measurement of Relative Humidity	20 to 30 °C 40 to 80 % RH	0.65 °C 2.2 %RH	
Testing of Environmental/ Humidity Chamber	Testing of Environmental/ Humidity Chamber	20 to 30 °C 40 to 80 % RH	0.65 °C 2.2 %RH	CALPRO-HYGRO-02

* 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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 CALIBRATION LABORATORY
 PNS ISO/IEC 17025:2017
 LA-2013-254B**