



# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **CALTEKGROUP B SDN BHD**

UNIT 6 GROUND FLOOR SPG 501 BANGUNAN ZAINUDDIN & AZIZAH, JALAN TUTONG JALAN TELANAI  
BRUNEI MUARA, BA2312, BRUNEI

### **Calibration Laboratory CL-298**

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date January 21, 2025



IAS is an ILAC MRA Signatory

*International Accreditation Service*  
Issued under the authority of IAS management

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# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## CALTEKGROUP B SDN BHD

**Contact Name** Sanjeev Singh

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*Accredited to ISO/IEC 17025:2017*

*Effective Date January 21, 2025*

### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)\*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
<b>Mechanical</b>			
Vacuum Measurement Devices (Digital/Analogue Vacuum Gauges, Transducers/ Transmitters)	-13 psi to 0 psi	0.09 psi	Digital Pressure Gauge and Vacuum Pump by Comparison Method
Pressure Measurement Devices (Digital / Analogue Pressure Gauges, Transducers, Transmitters, Switches)	0 psi to 30 psi 30 psi to 2000 psi 2000 psi to 15000 psi	0.02 psi 1.2 psi 69 psi	Digital Pressure Gauge and Pneumatic/ Hydraulic Pressure Comparator Pump by Comparison Method
<b>Thermal</b>			
Temperature Sensor with/without Indicator	-30 °C to 100 °C 100 °C to 250 °C 250 °C to 400 °C 250 °C to 600 °C	0.16 °C 0.41 °C 0.6 °C 1.9 °C	RTD / Thermocouple with indicator and Dry Block by Comparison Method
Glass Thermometer	-30 °C to 100 °C	0.2 °C	RTD with indicator and Liquid Bath by Comparison Method
Bath (Liquid/Dry), Incubators, Autoclave, Temperature Enclosure Chambers Ovens Furnace.	-30 °C to 100 °C 100 °C to 250 °C 250 °C to 600 °C	0.27 °C 0.5 °C 1.7 °C	RTD / Thermocouple probe with Digital Indicator (Direct measurement by Single Sensor Method)
IR Thermometer	35 °C to 100 °C 100 °C to 400 °C	1.2 °C 1.8 °C	Thermocouple with Data logger and Black body source by Comparison Method
Thermohydrometer/ Humidity Meters /	5 °C to 50 °C @50 %RH	0.49 °C	Using Temperature & Humidity Meter with Humidity

\* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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Data Logger Humidity Transmitters	10 %RH to 95 %RH @ (20 °C to 50 °C)	2.1 %RH	Chamber by Comparison Method
<b>Electrical – DC/LF</b>			
DC Voltage Generate <sup>3</sup>	1 mV to 100 mV 100 mV to 1000 V	0.01 % 0.007 %	Using Electrical Multiproduct Calibrator by Direct Method
DC Current Generate <sup>3</sup>	10 µA to 1 mA 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 500 A	0.021 % 0.016 % 0.04 % 0.073 % 0.27 %	Using Electrical Multiproduct Calibrator and Current Coil 50 Turn by Direct Method
DC Resistance Generate <sup>3</sup>	1 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 290 MΩ	0.03 % 0.02 % 0.03 % 0.31 % 0.01 %	Using Electrical Multiproduct Calibrator by Direct Method
AC Voltage Generate <sup>3</sup> (50 Hz to 1 kHz)	30 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.25 % 0.04 % 0.05 % 0.07 % 0.07 %	Using Electrical Multiproduct Calibrator by Direct Method
AC Current Generate <sup>3</sup> (50 Hz to 1 kHz)	33 µA to 1 mA 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 500 A	1.0 % 0.18 % 0.15 % 0.40 % 0.44 %	Using Electrical Multiproduct Calibrator and Current Coil 50 Turn by Direct Method
Capacitance Generate <sup>3</sup>	(1 kHz) 350 pF to 1nF 1 nF to 10 nF 10 nF to 100 nF  (100 Hz) 100 nF to 1 µF 1 µF to 100 µF 100 µF to 1000 µF	1.7 % 0.7 % 0.4 %  0.43 % 0.75 % 1.2 %	Using Electrical Multiproduct Calibrator by Direct Method
Frequency Generate <sup>3</sup>	10 Hz to 100 kHz	0.01 %	Using Electrical Multiproduct Calibrator by Direct Method
DC Voltage Measure <sup>4</sup>	10 µV to 1000 V	0.01 %	Using 6½ Precision Digital Multimeter by Comparison Method

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DC Voltage Measure <sup>4</sup> (continued)	1 kV to 10 kV	17 %	Using High Voltage Probe Fluke 80K-40 and 4½ Precision Digital Multimeter by Comparison Method
	10 kV to 25 kV	7 %	
DC Current Measure <sup>4</sup>	1 mA to 100 mA	0.06 %	Using 6½ Precision Digital Multimeter by Comparison Method
	100 mA to 1 A	0.08 %	
	1 A to 10 A	0.03 %	
AC Current Measure <sup>4</sup> @ 50 Hz	1 mA to 100 mA	0.17 %	Comparison Method using 6½ Precision Digital Multimeter
	100 mA to 1 A	0.16 %	
	1 A to 10 A	0.25 %	
AC Voltage Measure <sup>4</sup> @ 50Hz	100 µV to 100 mV 0.1 V to 1000 V	4.7 % 0.10 %	Using 6½ Precision Digital Multimeter by Comparison Method
	1 kV to 10 kV 10 kV to 25 kV	16 % 8.2 %	Using High Voltage Probe Fluke 80K-40 and 4½ Precision Digital Multimeter by Comparison Method
Frequency Measure <sup>4</sup>	1 Hz to 1000 Hz	0.58 %	Using 6½ Precision Digital Multimeter by Comparison Method
	1 kHz to 100 kHz	0.06 %	
Resistance Measure <sup>4</sup>	1 Ω to 100 Ω	0.68 %	Using 6½ Precision Digital Multimeter by Comparison Method
	100 Ω to 1 kΩ	0.12 %	
	1 kΩ to 100 kΩ	0.12 %	
	100 kΩ to 10 MΩ	0.12 %	
	10 MΩ to 290 MΩ	3.9 %	
Capacitance Measure <sup>4</sup>	1 nF to 1000 nF	0.57 %	Using 6½ Precision Digital Multimeter by Comparison Method
	1 µF to 1 mF	1.5 %	
Earth Tester/ Insulation Tester	1 Ω	1.9 %	Using Resistance Box by Direct Method
	10 Ω	0.71 %	
	100 Ω to 1 kΩ	1.2 %	
	1 kΩ to 10 kΩ	1.2 %	
	10 kΩ to 100 kΩ	1.2 %	
	100 kΩ to 1 MΩ	1.5 %	
	1 MΩ to 100 MΩ	1.5 %	
	200 MΩ	3.5 %	
2 GΩ	4.5 %		

<sup>1</sup>The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

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<sup>2</sup>When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

<sup>3</sup>Capability is suitable for the calibration of measuring devices in the stated ranges.

<sup>4</sup>Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.