CERTIFICATE OF ACCREDITATION

This is to attest that

QATAR AIRWAYS

HAMAD INTERNATIONAL AIRPORT
DOHA 22550, QATAR

Calibration Laboratory CL-205

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 July 10, 2024

Expiration Date May 1, 2025

President

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SCOPE OF ACCREDITATION

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QATAR AIRWAYS

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Accredited to ISO/IEC 17025:2017 *Effective Date July 10, 2024*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Micrometer	0 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm 75 mm to 100 mm 100 mm to 200 mm	1.0 µm 1.3 µm 1.5 µm 1.9 µm 2.7 µm	Using Grade 0 Gage Blocks By Direct method
Length Measuring Machine	0.5 mm to 50 mm 50 mm to 200 mm	0.16 µm 0.25 µm	Using Grade 0 Gage Blocks by Direct method
Vernier Caliper (External Jaws)	0 mm to 300 mm	6.2 µm	Using Grade 0 Gage Block by Direct Method
Dial Gauges for Linear Measurement (Plunger)	0 mm to 25 mm	1.3 µm	Using Length Measuring Machine by Direct Method
Dial Test Indicators (Lever)	0 mm to 2 mm	0.5 µm	Using Length Measuring Machine by Direct Method
Depth Gauge	Up to 200 mm	6 µm	Using Grade 0 Gage Block by Direct method
Setting Rod, Pin Gage, Plug Gage	0.1 mm to 100 mm 100 mm to 200 mm	0.7 µm 1.5 µm	Using Length Measuring Machine by Direct Method
Setting Ring	6 mm to 20 mm 20 mm to 90 mm	0.2 µm 0. 3 µm	Using Length Measuring Machine by Direct Method
3 Point (Bore) Micrometers	6 mm to 40 mm 40 mm to 95 mm	1.1 µm 2.2 µm	Using Setting Rings by Direct method
Inclinometer	0º to 45º	36”	Using Gage blocks and Sine bar by Direct method

** 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.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Mechanical			
Pressure Pneumatic[5] (Pressure Gauge / Pressure Transmitter)	1 kPa to 5 kPa 5 kPa to 350 kPa 350 kPa to 700 kPa 700 kPa to 1750 kPa 1750 kPa to 3500 kPa 3500 kPa to 5.6 MPa 5.6 MPa to 14 MPa	2.5 % 0.1 % 0.05 % 0.06 % 0.02 % 0.06 % 0.04 %	Using Reference Gauge by Comparison Method
Pressure Hydraulic[5] (Pressure Gauge / Pressure Transmitter)	2 MPa to 4 MPa 4 MPa to 7 MPa 7 MPa to 12 MPa 12 MPa to 20 MPa 20 MPa to 140 MPa	0.14 % 0.08 % 0.06 % 0.03 % 0.05 %	Using Electronic Deadweight Tester by Direct Method
	0.1 MPa to 5 MPa 5 MPa to 10 MPa 10 MPa to 30 MPa 30 MPa to 70 MPa	0.4 % 0.2 % 0.1 % 0.05 %	Using Reference Gauge by Comparison Method
Vacuum Gauge[5]	0.1 kPa to 20 kPa 20 KPa to 30 KPa 30 KPa to 80 KPa	0.3 % 0.2 % 0.1 %	Using Reference Gauge by Comparison Method
Torque (CW and CCW)	0.2 N.m to 1 N m 1 N·m to 110 N·m 110 N·m to 1100 N·m	0.76 % 0.6 % 0.5 %	Method: QTR/CAL/054/014 (ISO 6789:2017) Torque Transducers
Force-Compression (Aircraft Scales)	26 kN to 267 kN	0.06 %	Using Reference load cell and Indicator & Force Generation Machine by Comparison Method
Hanging Balances Spring Balances Push-Pull Gauges	10 N to 1000 N	0.06 %	Using Suspension weights by Direct Method
Weighing scales[5]	10 g to 200 g 201 g to 500 g 501 g to 1 kg 1 kg to 10 kg 10 kg to 60 kg	5 mg + 0.58R 10 mg + 0.58R 68 mg + 0.8R 0.14 g + 0.8R 0.76 g + 0.8R where R is resolution of unit under calibration	Using F1 Class Weights by ABBA Method
Sound Level Meter @ 1 kHz	94 dB and 114 dB	0.17 dB	Using Sound level Calibrator by Direct Method

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Thermal			
Temperature Sensors/ Thermometer with or without Indicators[5]	-25 °C to 100 °C 100 °C to 400 °C 400 °C to 600 °C	0.08 °C 0.12 °C 0.58 °C	Using Reference PRT with readout & Drywell Temperature Calibrator by Comparison Method
Pyrometers / Non-contact Thermometers[5]	35 °C to 50 °C 50 °C to 100 °C 100 °C to 200 °C 200 °C to 300 °C 300 °C to 400 °C	0.4 °C 0.7 °C 1.0 °C 1.6 °C 2.1 °C	Using Infrared Calibrator by Direct Method
Temperature Sourcing Devices and Enclosures[5] (Single Sensor Method)	-25 °C to 200 °C 200 °C to 400 °C 400 °C to 500 °C 500 °C to 600 °C	0.02 °C 0.03 °C 0.04 °C 0.78 °C	Using PRT/ N Type Thermocouple and Readout By Direct Method
RH Meter/ Sensors	20 %RH to 30 %RH (@ 40 °C) 30 %RH to 75 %RH (@ 25 °C)	1.4 %RH 1.8 %RH	Using Reference Sensor by Comparison Method
Electrical – DC/LF			
DC Voltage Generate[3,5]	0 mV to 3.29999 mV 3.29999 mV to 329.9999 mV 329.9999 mV to 3.299999 V 3.299999 V to 32.99999 V 32.99999 V to 329.9999 V 329.9999 V to 1000.000 V	0.0016 % + 0.93 µV 0.0016 % + 3.2 µV 0.00085 % + 16 µV 0.00093 % + 190 µV 0.0014 % + 2.6 mV 0.0014 % + 8.1 mV	Using Electrical Multifunction Calibrator by Direct Method
DC Resistance Generate[3,5]	0 Ω to 10.9999 Ω 10.9999 Ω to 32.9999 Ω 32.9999 Ω to 109.9999 Ω 109.9999 Ω to 1.099999 kΩ 1.099999 kΩ to 3.299999 kΩ 3.299999 kΩ to 10.99999 kΩ 10.99999 kΩ to 32.99999 kΩ 32.99999 kΩ to 109.9999 kΩ 109.9999 kΩ to 329.99999 kΩ 329.99999 kΩ to 1.099999 MΩ 1.099999 MΩ to 3.299999 MΩ 3.299999 MΩ to 10.99999 MΩ 10.99999 MΩ to 32.99999 MΩ 32.99999 MΩ to 109.9999 MΩ 109.9999 MΩ to 329.9999 MΩ 329.9999 MΩ to 1000 MΩ	0.0031 % + 0.98 mΩ 0.0023 % + 1.5 mΩ 0.0022 % + 1.9 mΩ 0.0022 % + 8.3 mΩ 0.0022 % + 35 mΩ 0.0022 % + 84 mΩ 0.0022 % + 0.40 Ω 0.0022 % + 0.84 Ω 0.0025 % + 5.1 Ω 0.0025 % + 50 Ω 0.0047 % + 0.28 kΩ 0.010 % + 1.0 kΩ 0.019 % + 15 kΩ 0.039 % + 80 kΩ 0.23 % + 0.14 MΩ 1.2 % + 0.71 MΩ	Using Electrical Multifunction Calibrator by Direct Method
DC Current Generate[3,5]	0 µA to 329.999 µA 329.999 µA to 3.29999 mA 3.29999 mA to 32.9999 mA	0.012 % + 20 nA 0.0078 % + 86 nA 0.0078 % + 0.78 µA	Using Electrical Multifunction Calibrator by Direct Method

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
DC Current Generate[3,5] (continued)	32.9999 mA to 329.999 mA 329.999 mA to 1.09999 A 1.09999 A to 2.99999 A 2.99999 A to 10.0000 A 10.0000 A to 20.0000 A	0.0078 % + 7.9 µA 0.016 % + 59 µA 0.029 % + 0.24 mA 0.039 % + 0.89 mA 0.078 % + 0.58 mA	Using Electrical Multifunction Calibrator by Direct Method
DC Current Generate[3,5]	10 A to 100 A 100 A to 500 A 500 A to 1000 A	0.40 % + 0.07 A 0.44 % + 0.099 A 0.40 % + 0.14 A	Using Electrical Multifunction Calibrator & 50 Turn Current Coil by Direct Method
Capacitance Generate[3,5]	220.0 pF to 399.9 pF (10 Hz to 10 kHz) 399.9 pF to 1.0999 nF (10 Hz to 10 kHz) 1.0999 nF to 3.2999 nF (10 Hz to 3 kHz) 3.2999 nF to 10.9999 nF (10 Hz to 1 kHz) 10.9999 nF to 32.9999 nF (10 Hz to 1 kHz) 32.9999 nF to 109.999 nF (10 Hz to 1 kHz) 109.999 nF to 329.999 nF (10 Hz to 1 kHz) 329.99 nF to 1.09999 µF (10 Hz to 600 Hz) 1.09999 µF to 3.29999 µF (10 Hz to 300 Hz) 3.29999 µF to 10.9999 µF (10 Hz to 150 Hz) 10.9999 µF to 32.9999 µF (10 Hz to 120 Hz) 32.9999 µF to 109.999 µF (10 Hz to 80 Hz) 109.999 µF to 329.999 µF (0 Hz to 50 Hz)	0.39 % + 8.0 pF 0.39 % + 7.9 pF 0.39 % + 11 pF 0.19 % + 14 pF 0.19 % + 63 pF 0.19 % + 99 pF 0.19 % + 0.63 nF 0.19 % + 1.2 nF 0.19 % + 6.7 nF 0.19 % + 13 nF 0.31 % + 75 nF 0.35 % + 97 nF 0.35 % + 0.63 µF	Using Electrical Multifunction Calibrator by Direct Method

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Capacitance Generate[3,5] (continued)	329.999 µF to 1.09999 mF (0 Hz to 20 Hz) 1.09999 mF to 3.29999 mF (0 Hz to 6 Hz) 3.29999 mF to 10.9999 mF (0 Hz to 2 Hz) 10.9999 mF to 32.9999 mF (0 Hz to 0.6 Hz) 32.9999 mF to 100.00 mF (0 Hz to 0.2 Hz)	0.35 % + 1 nF 0.35 % + 6.3 µF 0.35 % + 10 µF 0.58 % + 63 µF 0.85 % + 0.17 mF	Using Electrical Multifunction Calibrator by Direct Method
AC Voltage Generate[3,5]	10.0 mV to 32.999 mV (45 Hz to 1 kHz) (1 kHz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 32.999 mV to 329.999 mV (45 Hz to 1 kHz) (1 kHz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 329.999 mV to 3.29999 V (45 Hz to 1 kHz) (1 kHz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 3.29999 V to 32.9999 V (45 Hz to 1 kHz) (1 kHz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 32.9999 V to 329.999 V (45 Hz to 1 kHz) (1 kHz to 10 kHz) (10 kHz to 20 kHz)	 0.062 % + 5 µV 0.016 % + 5 µV 0.62 % + 5 µV 0.27 % + 10 µV 0.62 % + 39 µV 0.011 % + 11 µV 0.012 % + 11 µV 0.027 % + 11 µV 0.062 % + 26 µV 0.16 % + 55 µV 0.012 % + 0.10 mV 0.015 % + 0.10 mV 0.023 % + 0.10 mV 0.054 % + 0.13 mV 0.19 % + 0.48 mV 0.012 % + 0.10 mV 0.019 % + 0.98 mV 0.027 % + 1.0 mV 0.070 % + 1.5 mV 0.070 % + 1.5 mV 0.016 % + 10 mV 0.019 % + 10 mV 0.023 % + 10 mV	Using Electrical Multifunction Calibrator by Direct Method

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
AC Voltage Generate[3,5] (continued)	32.9999 V to 329.999 V (20 kHz to 50 kHz) (50 kHz to 100 kHz) 329.999 V to 1000.00 V (45 Hz to 1 kHz) (1 kHz to 10 kHz)	 0.16 % + 41 mV 0.16 % + 41 mV 0.023 % + 30 mV 0.023 % + 30 mV	Using Electrical Multifunction Calibrator by Direct Method
AC Current Generate[3,5]	100 µA to 329.99 µA (45 Hz to 1 kHz) 329.99 µA to 3.29999 mA (45 Hz to 1 kHz) 3.29999 mA to 32.9999 mA (45 Hz to 1 kHz) 32.9999 mA to 100.000 mA (45 Hz to 1 kHz) 100.000 mA to 1.00000 A (45 Hz to 1 kHz) 1.00000 A to 2.99999 A (45 Hz to 1 kHz) 2.99999 A to 10.0 A (45 Hz to 1 kHz) 10.0 A to 20.0 A (45 Hz to 1 kHz)	0.078 % + 0.16 µA 0.031 % + 1.8 µA 0.031 % + 18 µA 0.039 % + 0.018 mA 0.039 % + 0.15 mA 0.047 % + 3.0 mA 0.078 % + 3.4 mA 0.12 % + 7.2 mA	Using Electrical Multifunction Calibrator by Direct Method
AC Current Generate[3,5]	1 A to 10 A (45 Hz to 100 Hz) (100 Hz to 440 Hz) 10 A to 100 A (45 Hz to 100 Hz) (100 Hz to 440 Hz) 100 A to 200 A (45 Hz to 100 Hz) (100 Hz to 440 Hz) 200 A to 300 A (45 Hz to 100 Hz) (100 Hz to 440 Hz)	 0.67 % + 58 mA 1.0 % + 58 mA 0.82 % + 58 mA 1.2 % + 58 mA 0.78 % + 58 mA 1.4 % + 58 mA 0.67 % + 0.16 A 1.3 % + 0.16 A	Using Electrical Multifunction Calibrator & 50 Turn Current Coil by Direct Method

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
AC Current Generate[3,5] (continued)	300 A to 400 A (45 Hz to 100 Hz) (100 Hz to 440 Hz) 400 A to 500 A (45 Hz to 100 Hz) 500 A to 1000 A (45 Hz to 100 Hz)	 0.61 % + 0.16 A 1.2 % + 0.16 A 0.92 % + 0.16 A 0.92 % + 0.31 A	Using Electrical Multifunction Calibrator & 50 Turn Current Coil by Direct Method
Temperature Simulation[5] Thermocouple Type - B Type - E Type - J Type – K Type - N Type - R Type - S Type - T	 600 ºC to 1750 ºC -250 ºC to 200 ºC -210 ºC to 1190 ºC -200 ºC to 1370 ºC -200 ºC to 600 ºC 0 ºC to 500 ºC 600 ºC to 1200 ºC -250 ºC to 200 ºC	 0.67 ºC 0.39 ºC 0.21 ºC 0.31 ºC 0.31 ºC 0.45 ºC 0.44 ºC 0.49 ºC	Using Electrical Multifunction Calibrator by Direct Method
Insulation DC Resistance Generate[3,5]	100 KΩ to 10 GΩ (Discrete steps)	1.3 %	Using Standard Resistors by Direct Method
DC Resistance Generate[3,5]	50 µΩ to 200 µΩ 200 µΩ to 1 mΩ 1 mΩ to 2 mΩ 2 mΩ to 5 mΩ 5 mΩ to 10 mΩ 10 mΩ to 15 mΩ 15 mΩ to 20 mΩ 20 mΩ to 50 mΩ 50 mΩ to 100 mΩ 100 mΩ to 150 mΩ 150 mΩ to 200 mΩ 200 mΩ to 500 mΩ 500 mΩ to 1000 mΩ 1 Ω to 1.5 Ω 1.5 Ω to 2 Ω	0.12 µΩ 0.7 µΩ 0.85 µΩ 1.3 µΩ 2.1 µΩ 3.0 µΩ 4.0 µΩ 9.7 µΩ 20 µΩ 30 µΩ 39 µΩ 96 µΩ 0.19 mΩ 0.29 mΩ 0.40 mΩ	Using Standard Resistors and DMM by Comparison

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
AC Power (Active) Generate[3,5]	10 W to 1000 W (45 Hz to 1 kHz, Power factor = 1) 10 W to 1000 W (45 Hz to 1 kHz, Power factor = 0.5)	0.08 % + 0.58R 0.41 % + 0.58R Where R is resolution of unit under calibration	Using Electrical Multifunction Calibrator by Direct Method
Power Factor Generate[3,5] (Lead and Lag)	0.2 to 0.6 0.6 to 1	0.007 0.006	Using Electrical Multifunction Calibrator by Direct Method
Oscilloscopes[5] Time Base Amplitude (Sine Wave) Bandwidth	 100 ns to 20 ms 100 mVp-p to 30 Vp-p (1 kHz) 1 MHz to 300 MHz	 0.0005 % 0.079 %+0.058 mV 0.00019 %	Using Electrical Multifunction Calibrator with Scope by Direct Method
DC Voltage Measure[4,5]	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.0010 % + 0.36 µV 0.00092 % + 1.1 µV 0.00092 % + 10 µV 0.0012 % + 0.11 mV 0.0012 % + 1.1 mV	Using Digit Multimeter by Direct Method
DC Resistance Measure[4,5]	0 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ	0.0017 %+0.11 mΩ 0.0014 % + 1.2 mΩ 0.0012 % + 9.1 mΩ 0.0012 % + 52 mΩ 0.0012 % + 0.51 Ω 0.0018 % + 9.5 Ω 0.0058 % + 0.83 kΩ 0.058 % + 13 kΩ 1.6 % + 1.0 MΩ	Using Digit Multimeter by Direct Method
DC Current Measure[4,5]	0 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 1.9 A 1.9 A to 5 A 5 A to 10 A	0.0023 % + 1.1 nA 0.0023 % + 7.6 nA 0.0023 % + 76 nA 0.0040 % + 0.77 µA 0.013 % + 17 µA 0.12 % + 0.70 mA 0.17 % + 3.1 mA 0.17 % + 3.1 mA	Using Digit Multimeter by Direct Method
	10 A to 20 A 20 A to 50 A 50 A to 100 A	5 mA 30 mA 60 mA	Using AC/DC Current Shunt & Digit Multimeter by Direct Method

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
DC Current Measure[4,5] (continued)	100 A to 500 A 500 A to 1000 A	12 A 24 A	Using Calibrated Clamp meter & Digit Multimeter by Direct Method
AC Voltage Measure[4,5]	(40 Hz to 1 kHz) 0 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 700 V	 0.04 % + 1.5 µV 0.008 % + 5.2 µV 0.008 % + 38 µV 0.008 % + 0.56 mV 0.03 % + 4.3 mV 0.05 % + 39 mV	Using Digit Multimeter by Direct Method
AC Current Measure[4,5]	(10 Hz to 1 kHz) 10 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 1.9 A 1.9 A to 10 A	 0.07 % + 41 nA 0.04 % + 0.29 µA 0.04 % + 2.7 µA 0.04 % + 27 µA 0.12 % + 0.29 mA 0.17 % + 4.7 mA 0.17 % + 5.5 mA	Using Digit Multimeter by Direct Method
	(45 Hz to 500 Hz) 100 A to 500 A 500 A to 1000 A 1000 A to 2000 A	 19 A 47 A 79 A	Using Calibrated Clamp meter & Digit Multimeter by Direct Method
Capacitance Measure[4,5] @1 kHz	1 nF to 10 nF 10 nF to 10 mF 10 mF to 100 mF	1.6 % + 23 pF 0.8 % + 49 pF 3.1 % + 0.96 mF	Using Digit Multimeter by Direct Method
Time and Frequency			
Frequency Generate[3,5]	10.0 Hz to 1199 kHz	0.00019 %	Using Electrical Multifunction Calibrator by Direct Method
Frequency Measure[4,5]	10 Hz to 10 MHz	0.012 %	Using Digit Multimeter by Direct Method
Tachometer (Non-contact Type)[5]	60 rpm to 90000 rpm	0.00019 %	Using Electrical Multifunction Calibrator by Direct Method

[1]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.

[2]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.

[3]Capability is suitable for the calibration of measuring devices in the stated ranges.

[4]Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.

[5]Also available as on-site calibration. Note that actual measurement uncertainties achievable at site outside the laboratory can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.

Notes:

CW = clockwise
CCW = counter-clockwise
p-p = peak to peak