



INTERNATIONAL
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CERTIFICATE OF ACCREDITATION

This is to attest

METROMAC CALIBRATION SERVICES WLL

B1-A6-13, GWC AL WUKAIR LOGISTIC PARK, BIRKAT AL AWAMER, P.O BOX: 200239,
AL WAKRAH, 200239, QATAR

Calibration Laboratory CL-208

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.

Expiration Date October 1, 2027

Effective Date March 19, 2025



International Accreditation Service

Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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METROMAC CALIBRATION SERVICES WLL

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Accredited to ISO/IEC 17025:2017

Effective Date March 19, 2025

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
<i>Dimensional</i>			
Dial Gauge	0 mm to 25 mm	2.9 µm	Dial Calibration Tester, IS 2092
Outside Micrometer	0 mm to 25 mm 25 mm to 50 mm 50 mm to 75 mm 75 mm to 100 mm	2.3 µm 2.7 µm 2.9 µm 3.5 µm	0 Grade Gauge Block Set, BS EN ISO 3611 & IS 2967
Caliper Digital	0 mm to 300 mm	15 µm	0 Grade Gauge Block Set, ISO 13385-1
Caliper Analog	0 mm to 600 mm	30 µm	0 Grade Gauge Block Set, ISO 13385-1
Feeler Gauge	0.01 mm to 1 mm	1.2 µm	Digital Micrometer, IS 3179
Steel Ruler	0 mm to 1000 mm	0.02 mm	Tape & Scale Calibrator IS 1481, IS 1269 part 2
Measuring Tape	0 mm to 50000 mm	(0.28 + 0.00094 L) mm (where L is in meters)	Tape & Scale Calibrator IS 1269 part1, part 2
<i>Mechanical</i>			
Pressure Measuring Devices - Pneumatic (Pressure gauges, Transducers, Switches, Pressure transmitters etc.)	0.001 bar to 3.5 bar	0.02 % + 0.6 mbar	Pressure Calibrator GE Druck CM1 DKD R 6-1
	0.01 bar to 100 bar	0.02 % + 6.6 mbar	

* 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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Pressure Measuring Devices - Hydraulic (Pressure gauges, Transducers, Switches, Pressure transmitters etc.)	100 bar to 1000 bar	0.31 bar	Digital pressure gauge Additel 681 DKD R 6-1
	1000 bar to 2000 bar 2000 bar to 2400 bar	12 bar 29 bar	Digital pressure gauge Sika Type P DKD R 6-1
	6 bar to 60 bar 60 bar to 1400 bar	0.008 bar 0.17 bar	Hydraulic dead weight tester DH-Budenberg CPB5800 DKD R 6-1
Torque wrench	1.25 N m to 25 N m 25 N m to 400 N m 400 N m to 1500 N m	0.8 % 1.2 % 0.64 %	Flange Mouth Transducer with Indicator, Norbar / 50673 LOG Norbar / 50675.LOG Norbar / 50676.LOG Norbar / 43228 ISO 6789-1,2
Platform Scale	0 kg to 300 kg	0.012 kg	M1 Class 20 kg weights OIML R 76-1, OIML R 76-2, OIML R 47& ASTM E898-20
Analytical Balance	0 g to 220 g	0.0003 g	E2 Class weight set OIML R 76-1, OIML R 76-2, OIML R 47 & ASTM E898- 20
Sound Level meter	94 dB and 114 dB	0.3 dB	Constant Sound Level Calibrator OIML R 58/BS EN ISO 61672-1
<i>Thermal</i>			
Digital Thermometer	-20 °C to 150 °C	0.054 °C	Digital thermometer, Thermo Probe, DKD-R 5-1/BS 1041 Part III
Oven	25 °C to 250 °C	1.4 °C	Data logger HIOKI LR8401- 20, DKD R 5-7 IEC 60068-3-5 (9 points)
Incubator	20 °C to 100 °C	0.65 °C	Data logger HIOKI LR8401- 20 DKD R 5-7 (9 points)
Refrigerators / Freezers	-30 °C to 20 °C	1.1 °C	Data logger HIOKI LR8401- 20 DKD R 5-7

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			(9 points)
Liquid baths	-30 °C to 250 °C	1.2 °C	Multifunction Calibrator Druck DPI 880 / Data logger HIOKI LR8401-20. DKD R 5-7 (5 points)
Glass Thermometer 0.05 °C resolution 0.1 °C resolution 0.5 °C to 1 °C resolution	36 °C to 102 °C -20 °C to 130 °C 130 °C to 400 °C	0.07 °C 0.17 °C 1.2 °C	Digital Thermometer ThermoProbe, Fluke Calibration Bath. OIML R 133/ BS 1041-2.1
Thermo-Hygrometer	10 °C to 70 °C 10 %RH to 95 %RH	0.5 °C 1.2 %RH	Binder Climate Chamber. DKD R-5-8
Muffle furnace	100 °C to 850 °C 850 °C to 1100 °C	2.7 °C 4 °C	Multifunction Calibrator, Druck, TC-N type. DKD R 5-7
Electrical – DC/LF			
AC Voltage - Generate ³	1.0 mV to 32.999 mV (10 Hz to 45 Hz) (45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 500 kHz) 33 mV to 329.999 mV (10 Hz to 45 Hz) (45 Hz to 10 kHz) (10 kHz to 20 kHz) 33 mV to 329.999 mV (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 500 kHz) 0.33 V to 3.29999 V (10 Hz to 45 Hz) (45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 500 kHz) 3.3 V to 32.9999 V (10 Hz to 45 Hz)	0.55 x 10 ⁻³ x V + 6.5 µV 0.28 x 10 ⁻³ x V + 4.8 µV 0.29 x 10 ⁻³ x V + 4.3 µV 0.65 x 10 ⁻³ x V + 4.3 µV 1.9 x 10 ⁻³ x V + 7.4 µV 4.4 x 10 ⁻³ x V + 28 µV 0.27 x 10 ⁻³ x V + 12 µV 90 x 10 ⁻⁶ x V + 7.1 µV 99 x 10 ⁻⁶ x V + 7.1 µV 0.21 x 10 ⁻³ x V + 6.8 µV 0.48 x 10 ⁻³ x V + 19 µV 1.2 x 10 ⁻³ x V + 43 µV 0.16 x 10 ⁻³ x V + 73 µV 73 x 10 ⁻⁶ x V + 35 µV 0.11 x 10 ⁻³ x V + 42 µV 0.17 x 10 ⁻³ x V + 45 µV 0.40 x 10 ⁻³ x V + 84 µV 1.3 x 10 ⁻³ x V + 0.34 µV 0.16 x 10 ⁻³ x V + 0.78 mV	Multifunction Calibrator, 5520A EURAMET CG-15

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AC Voltage - Generate ³ (continued)	(45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 33 V to 329.999 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) 330 V to 1000 V (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	$87 \times 10^{-6} \times V + 0.32 \text{ mV}$ $0.14 \times 10^{-3} \times V + 0.46 \text{ mV}$ $0.22 \times 10^{-3} \times V + 0.61 \text{ mV}$ $0.57 \times 10^{-3} \times V + 1.3 \text{ mV}$ $0.11 \times 10^{-3} \times V + 3.5 \text{ mV}$ $0.11 \times 10^{-3} \times V + 4.6 \text{ mV}$ $0.14 \times 10^{-3} \times V + 4.5 \text{ mV}$ $0.44 \times 10^{-3} \times V + 11 \text{ mV}$ $1.1 \times 10^{-3} \times V + 28 \text{ mV}$ $0.16 \times 10^{-3} \times V + 49 \text{ mV}$ $0.14 \times 10^{-3} \times V + 46 \text{ mV}$ $0.17 \times 10^{-3} \times V + 44 \text{ mV}$	Multifunction Calibrator, 5520A EURAMET CG-15
DC Voltage - Generate ³	3 mV to 329.9999 mV 0.33 V to 3.299999 V 3.3 V to 32.99999 V 33 V to 329.9999 V 330 V to 1000 V	$14 \times 10^{-6} \times V + 1.9 \text{ } \mu\text{V}$ $7.2 \times 10^{-6} \times V + 2.7 \text{ } \mu\text{V}$ $8.0 \times 10^{-6} \times V + 16 \text{ } \mu\text{V}$ $12 \times 10^{-6} \times V + 0.16 \text{ mV}$ $12 \times 10^{-6} \times V + 1.2 \text{ mV}$	Multifunction Calibrator, 5520A. EURAMET CG-15
DC Resistance - Generate ³	0 Ω to 10.9999 Ω 11 Ω to 32.9999 Ω 33 Ω to 109.9999 Ω 110 Ω to 329.9999 Ω 330 Ω to 1.099999 kΩ 1.1 kΩ to 3.299999 kΩ 3.3 kΩ to 10.99999 kΩ 11 kΩ to 32.99999 kΩ 33 kΩ to 109.9999 kΩ 110 kΩ to 329.9999 kΩ 330 kΩ to 1.099999 MΩ 1.1 MΩ to 3.299999 MΩ 3.3 MΩ to 10.99999 MΩ 11 MΩ to 32.99999 MΩ 33 MΩ to 109.9999 MΩ 110 MΩ to 329.999 MΩ 330 MΩ to 1100 MΩ	$33 \times 10^{-6} \times R + 5.6 \text{ m}\Omega$ $18 \times 10^{-6} \times R + 8.2 \text{ m}\Omega$ $17 \times 10^{-6} \times R + 8.2 \text{ m}\Omega$ $17 \times 10^{-6} \times R + 11 \text{ m}\Omega$ $16 \times 10^{-6} \times R + 11 \text{ m}\Omega$ $16 \times 10^{-6} \times R + 0.11 \text{ } \Omega$ $16 \times 10^{-6} \times R + 77 \text{ m}\Omega$ $16 \times 10^{-6} \times R + 0.55 \text{ } \Omega$ $16 \times 10^{-6} \times R + 0.58 \text{ } \Omega$ $20 \times 10^{-6} \times R + 6.5 \text{ } \Omega$ $20 \times 10^{-6} \times R + 17 \text{ } \Omega$ $36 \times 10^{-6} \times R + 0.14 \text{ k}\Omega$ $74 \times 10^{-6} \times R + 0.25 \text{ k}\Omega$ $0.14 \times 10^{-3} \times R + 1.5 \text{ k}\Omega$ $0.29 \times 10^{-3} \times R + 2.9 \text{ k}\Omega$ $1.7 \times 10^{-3} \times R + 56 \text{ k}\Omega$ $8.2 \times 10^{-3} \times R + 0.31 \text{ M}\Omega$	Multifunction Calibrator, 5520A. EURAMET CG-15
DC Current - Generate ³	3 μA to 329.999 μA 330 μA to 3.299999 mA 3.3 mA to 32.99999 mA 33 mA to 329.999 mA 330 mA to 2.999999 A 3 A to 10.9999 A 11 A to 20.5 A	$86 \times 10^{-6} \times I + 12 \text{ nA}$ $57 \times 10^{-6} \times I + 18 \text{ nA}$ $57 \times 10^{-6} \times I + 0.12 \text{ } \mu\text{A}$ $57 \times 10^{-6} \times I + 1.2 \text{ } \mu\text{A}$ $0.12 \times 10^{-3} \times I + 22 \text{ } \mu\text{A}$ $0.28 \times 10^{-3} \times I + 0.22 \text{ mA}$ $0.56 \times 10^{-3} \times I + 0.52 \text{ mA}$	Multifunction Calibrator, 5520A. EURAMET CG-15

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DC Clamp meter	16.5 A to 149.95 A 150 A to 1000 A	$2.0 \times 10^{-3} \times I + 12 \text{ mA}$ $2.1 \times 10^{-3} \times I + 40 \text{ mA}$	Multifunction Calibrator, 5520A, 50 Turncoil. By comparison method
AC Current - Generate ³	29.00 µA to 329.99 µA (10 Hz to 20 Hz) (20 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) (10 kHz to 30 kHz) 0.33 mA to 3.2999 mA (10 Hz to 20 Hz) (20 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) (10 kHz to 30 kHz) 3.3 mA to 32.999 mA (10 Hz to 20 Hz) (20 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) (10 kHz to 30 kHz) 33 mA to 329.99 mA (10 Hz to 20 Hz) (20 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) (10 kHz to 30 kHz) 0.33 A to 2.99999 A (10 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) 3 A to 10.9999 A (45 Hz to 100 Hz) (100 Hz to 1 kHz) (1 kHz to 5 kHz)	$1.2 \times 10^{-3} \times I + 77 \text{ nA}$ $0.88 \times 10^{-3} \times I + 77 \text{ nA}$ $0.77 \times 10^{-3} \times I + 65 \text{ nA}$ $1.8 \times 10^{-3} \times I + 89 \text{ nA}$ $4.5 \times 10^{-3} \times I + 0.12 \text{ µA}$ $11 \times 10^{-3} \times I + 0.23 \text{ µA}$ $1.2 \times 10^{-3} \times I + 0.48 \text{ µA}$ $0.69 \times 10^{-3} \times I + 0.50 \text{ µA}$ $0.60 \times 10^{-3} \times I + 0.26 \text{ µA}$ $1.1 \times 10^{-3} \times I + 0.24 \text{ µA}$ $2.8 \times 10^{-3} \times I + 0.30 \text{ µA}$ $7.8 \times 10^{-3} \times I + 0.85 \text{ µA}$ $1.0 \times 10^{-3} \times I + 2.9 \text{ µA}$ $0.52 \times 10^{-3} \times I + 2.7 \text{ µA}$ $0.25 \times 10^{-3} \times I + 2.3 \text{ µA}$ $0.52 \times 10^{-3} \times I + 1.7 \text{ µA}$ $1.3 \times 10^{-3} \times I + 3.0 \text{ µA}$ $3.0 \times 10^{-3} \times I + 6.3 \text{ µA}$ $1.0 \times 10^{-3} \times I + 29 \text{ µA}$ $0.52 \times 10^{-3} \times I + 27 \text{ µA}$ $0.30 \times 10^{-3} \times I + 23 \text{ µA}$ $0.61 \times 10^{-3} \times I + 34 \text{ µA}$ $1.3 \times 10^{-3} \times I + 61 \text{ µA}$ $3.5 \times 10^{-3} \times I + 0.12 \text{ mA}$ $0.97 \times 10^{-3} \times I + 0.25 \text{ mA}$ $0.38 \times 10^{-3} \times I + 0.20 \text{ mA}$ $3.2 \times 10^{-3} \times I + 0.57 \text{ mA}$ $14 \times 10^{-3} \times I + 2.7 \text{ mA}$ $0.43 \times 10^{-3} \times I + 3.3 \text{ mA}$ $0.59 \times 10^{-3} \times I + 3.0 \text{ mA}$ $14 \times 10^{-3} \times I + 1.3 \text{ mA}$	Multifunction Calibrator, 5520A. EURAMET CG-15

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	11 A to 20.5 A (45 Hz to 100 Hz) (100 Hz to 1 kHz) (1 kHz to 5 kHz)	$0.72 \times 10^{-3} \times I + 6.9 \text{ mA}$ $0.86 \times 10^{-3} \times I + 6.6 \text{ mA}$ $14 \times 10^{-3} \times I + 3.3 \text{ mA}$	
AC Clamp meter	16.5 A to 149.9995 A (10 Hz to 100 Hz) (100 Hz to 440 Hz) 150 A to 1000 A (10 Hz to 100 Hz) (100 Hz to 440 Hz)	$2.4 \times 10^{-3} \times I + 20 \text{ mA}$ $6.6 \times 10^{-3} \times I + 21 \text{ mA}$ $2.4 \times 10^{-3} \times I + 71 \text{ mA}$ $8.5 \times 10^{-3} \times I + 65 \text{ mA}$	Multifunction Calibrator, 5520A, 50 Turncoil. By comparison method
Capacitance - Generate ^{3,4} @ 45 Hz	0.19 nF to 0.3999 nF 0.4 nF to 1.0999 nF 1.1 nF to 3.2999 nF 3.3 nF to 10.9999 nF 11 nF to 32.9999 nF 33 nF to 109.999 nF 110 nF to 329.999 nF 0.33 µF to 1.09999 µF 1.1 µF to 3.29999 µF 3.3 µF to 10.9999 µF 11 µF to 32.9999 µF 33 µF to 109.999 µF 110 µF to 329.999 µF) 0.33 mF to 1.09999 mF 1.1 mF to 3.2999 mF 3.3 mF to 10.9999 mF 11 mF to 32.9999 mF 33 mF to 110 mF	$2.7 \times 10^{-3} \times C + 5.5 \text{ pF}$ $2.8 \times 10^{-3} \times C + 5.5 \text{ pF}$ $3.0 \times 10^{-3} \times C + 5.5 \text{ pF}$ $1.2 \times 10^{-3} \times C + 9 \text{ pF}$ $1.4 \times 10^{-3} \times C + 55 \text{ pF}$ $1.2 \times 10^{-3} \times C + 90 \text{ pF}$ $1.4 \times 10^{-3} \times C + 0.18 \text{ nF}$ $1.2 \times 10^{-3} \times C + 0.9 \text{ nF}$ $1.4 \times 10^{-3} \times C + 1.8 \text{ nF}$ $1.3 \times 10^{-3} \times C + 9 \text{ nF}$ $2.3 \times 10^{-3} \times C + 18 \text{ nF}$ $2.5 \times 10^{-3} \times C + 85 \text{ nF}$ $2.6 \times 10^{-3} \times C + 0.2 \text{ µF}$ $2.5 \times 10^{-3} \times C + 0.86 \text{ µF}$ $2.6 \times 10^{-3} \times C + 1.9 \text{ µF}$ $2.5 \times 10^{-3} \times C + 8.3 \text{ µF}$ $4.2 \times 10^{-3} \times C + 18 \text{ µF}$ $6 \times 10^{-3} \times C + 76 \text{ µF}$	Multifunction Calibrator, 5520A. EURAMET CG-15
<i>Time and Frequency</i>			
Frequency – Generate ³ (Voltage specified @ 50 V)	0.01 Hz to 119.99 Hz 120 Hz to 1199.9 Hz 1.2 kHz to 11.999 kHz 12 kHz to 119.99 kHz 120 kHz to 1199.9 kHz 1.2 MHz to 2 MHz	$0.94 \times 10^{-6} \times F + 89 \text{ µHz}$ $1.1 \times 10^{-6} \times F + 0.71 \text{ mHz}$ $1.1 \times 10^{-6} \times F + 7.1 \text{ mHz}$ $1.1 \times 10^{-6} \times F + 71 \text{ mHz}$ $1.1 \times 10^{-6} \times F + 0.71 \text{ Hz}$ $1.4 \times 10^{-6} \times F + 0.67 \text{ Hz}$	Multifunction Calibrator, 5520A. EURAMET CG-15
Centrifuge, Mixers, Orbit & Plate Shaker, MST Apparatus, Autoclaves			Standard Tachometer,
Speed	0 rpm to 5000 rpm	1.6 rpm	Sanas TR 45
Timer	10 s to 30 min	0.7 s	Stopwatch

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			MSL Technical Guide V2.0, NIST 960-12
Stopwatch	10 s to 8 h	0.14 s	Stopwatch MSL Technical Guide V2.0, NIST 960-12
<i>Chemical/Gas</i>			
Gas Detector			Standard Gas
Oxygen - O ₂	18 % Vol	0.37 % Vol	ISO 19891-1/ BS EN 60079- 29-1/BS EN 60079-29-2
Methane - CH ₄	50 % LEL	1.2 % LEL	
Sulphur Dioxide – SO ₂	10 parts in 10 ⁶	0.22 parts in 10 ⁶	
Carbon Monoxide – CO	100 parts in 10 ⁶	2.1 parts in 10 ⁶	
Carbon Monoxide - CO	300 parts in 10 ⁶	6 parts in 10 ⁶	
Ammonia – NH ₃	25 parts in 10 ⁶	0.77 parts in 10 ⁶	
Chlorine – Cl ₂	5 parts in 10 ⁶	0.5 parts in 10 ⁶	
Hydrogen sulfide – H ₂ S	25 parts in 10 ⁶	0.51 parts in 10 ⁶	
Ethanol C ₂ H ₅ OH	0.082 % BrAC	0.0017 % BrAC	
Carbon Dioxide CO ₂	2 % Vol	0.04 % Vol	

¹The 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.

²When 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.

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

Notes:

LEL = Lower Explosive Limit

Vol = Volume

BrAC = Breath Alcohol Concentration