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CERTIFICATE OF ACCREDITATION

This is to attest

ALMEER TECHNICAL SERVICES - CALIBRATION LABORATORY

P.O.BOX.9240; PLOT NOS: 118 & 105; AREA 7 EAST AHMADI
AHMADI, 61003, KUWAIT

Calibration Laboratory CL-154

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 January 1, 2027

Effective Date April 22, 2026



International Accreditation Service

Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

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ALMEER TECHNICAL SERVICES - CALIBRATION LABORATORY

www.almeer.com.kw

Location	Address	Contact Name	Contact Phone	Scope pages
Main CL-154	P.O.BOX.9240; PLOT NOS: 118 & 105; AREA 7 EAST AHMADI AHMADI, 61003, KUWAIT	Meer Farooq	+965-1840-800 x225	2-16
Branch CL-319	Street # 62, 1/7998, Industrial area (Sinaiyait Hamdan), Abu Al-KHASEEB, Basra Governorate, IRAQ.	HASSANAIN TALEB JAWAD	+964 7817112235	16-20

Accredited to ISO/IEC 17025:2017

Effective Date April 22, 2026

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>			
External Micrometer – Metric	0 mm to 25 mm 25 mm to 100 mm 100 mm to 300 mm 300 mm to 600 mm	2.0 µm 7.4 µm 10 µm 14 µm	Direct method by using Reference gauge blocks & Long gauge blocks BS 870
Calipers (Dial / Vernier / Digital)	0 mm to 600 mm 0 mm to 800 mm 0 mm to 1000 mm	7.5 µm 8 µm 14 µm	Direct method by using Reference gauge blocks & Long gauge blocks EN ISO 13385-1
Dial Gauge - Plunger Type	0 mm to 25 mm	2.0 µm	Direct method by using Dial Calibration Tester BS EN ISO 463 BS 907
Dial Gauge - Lever Type	0.01 mm to 0.2 mm	1.4 µm	Direct method by using Dial Calibration Tester BS 2795

* 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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Tape & Scale Calibrator	0 mm to 2000 mm	(4.2 + 3.8 L) µm L is in meters	Direct method by using Reference Gauge Blocks, Grade 0 Lever Type Dial Gauge (0.001 mm)
Measuring Tape & Scale	0 mm to 2000 mm 2001 mm to 10000 mm 10001 mm to 50000 mm	(11 + 3.2 L) µm (12 + 2.8 L) µm (29 + 1.2 L) µm L is in meters	Direct method by using Measuring Tape & Scale Calibrator
Inside Micrometer, Stick Micrometer	0 mm to 100 mm 100 mm to 300 mm 300 mm to 600 mm	7.0 µm 8.0 µm 9.0 µm	Direct method by using Inside micro checker, Reference Gauge Blocks and accessories BS 959
Depth Micrometer, Depth Gauge	0 mm to 300 mm 300 mm to 600 mm	6 µm 9 µm	Direct method by using Depth Micro Checker BS 6468 and BS 6365
Height Gauge	0 mm to 300 mm 300 mm to 600 mm	7 µm 8 µm	Direct method by using Caliper Checker
Feeler Gauge	0.03 mm to 1 mm	3 µm	Direct method by using Litematic High Accuracy Digital Measuring instrument & Digital micrometer
Micrometer head	0.1 mm to 50 mm	1.7 µm	ACL-SOP-078 based on IS: 9843-1993
Bore gage	Spring loaded anvil of 2 mm range (Bore gage measuring range up to diameter 400 mm using extensions)	1.4 µm	ACL-SOP-077 based on JIS B 7515:1982:
Jigs & Fixtures Linear Measurement	0 mm to 50 mm 50 mm to 500 mm	2 µm 5 µm	By comparison with linear and angular reference artefacts and optical comparator
Angular measurement	0° to 90°	4'	
Coating Thickness Gauge	12.5 µm to 1500 µm	3 µm	Direct method by using Precision Foil Set ASTM E376
Ultrasonic Thickness Gauge	2 mm to 100 mm	6 µm	Direct method by using Ultrasonic Test Samples BS EN 15317
Gauge Block	0.5 mm to 10 mm 10 mm to 25 mm	0.09 µm 0.11 µm	Comparison method by using Grade K and Grade 0 Gauge

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	25 mm to 50 mm 50 mm to 75 mm 75 mm to 100 mm 100 mm to 150 mm	0.13 µm 0.16 µm 0.19 µm 0.23 µm	Block and Gauge Block Comparator BS EN ISO 3650
Optical Comparator ⁵ Linearity Angularity Magnification	50 mm to 250 mm 1° to 360° 10X to 100X	2.1 µm 4' 0.07 %	Comparison method by using Grade 0 Gauge Block, Steel Angle Gauge set and micro scale JIS B 7184
Sieves	50 µm to 500 µm 0.5 mm to 100 mm 100 mm to 150 mm	4 µm 6 µm 10 µm	Comparison method by using Optical comparator ISO3310-1 ASTM E11
Thread Profile Gauge Pitch Angle	0.5 mm to 100 mm 0° to 90°	6 µm 5'	Comparison method by using Optical comparator API SPEC 5B, API SPEC 7-2
Mechanical			
Pneumatic Pressure Indicating Instruments ⁵	0.2 bar to 30 bar	0.01 %	Direct method by using Dead Weight Tester EURAMET cg-17
Hydraulic Pressure Indicating Instruments ⁵	10 bar to 800 bar 800 bar to 2700 bar	0.01 % 0.07 %	Direct method by using Dead Weight Tester EURAMET cg-17
Vacuum Indicating Instruments ⁵	-1 bar to 0 bar	0.07 mbar	Comparison method by using Reference Pressure Test Gauge EURAMET cg-17
Pneumatic Pressure Indicating Instruments ⁵	0 bar to 2 bar	0.32 mbar	Comparison method by using Reference Pressure Test Gauge EURAMET cg-17
Absolute pressure indicating instruments ⁵	0 bar to 100 bar	0.016 % + 0.1 mbar	Comparison Method by using Advanced-Field process Calibrator and Communicator OIML R 97
Barometer ⁵	700 mbar to 1200 mbar	0.1 mbar	Comparison Method by using Advanced Field Calibrator and Communicator OIML R 97

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Pneumatic Dead Weight Tester	20 kPa to 5550 kPa	0.0025 %	Using Piston Gauge PC-7100/7600 By Cross Float Method EURAMET CG-3
Hydraulic Dead Weight Tester	400 kPa to 200 MPa	0.003 %	Using Piston Gauge PC-7300 By Cross Float Method EURAMET CG-3
Torque Wrench & Torque Tools	0.04 N·m to 10 N·m 10 N·m to 60 N·m 60 N·m to 110 N·m 110 N·m to 700 N·m 700 N·m to 1500 N·m 1500 N·m to 3000 N·m 3000 N·m to 50000 N·m	2.7 % 1.0 % 0.4 % 0.24 % 0.4 % 0.5 % 0.7 %	Direct Method by using Torque Tool Tester ISO 6789-2
Tachometer (non-contact type)	60 rpm to 999.9 rpm 1000 rpm to 99999 rpm	0.08 rpm 1.0 rpm	Direct method by using Multifunction Calibrator Sanas TR-45
Sound level meter ⁶	94 dB and 114 dB (1 kHz)	0.15 dB	Direct method by using Sound Level Calibrator BS EN 61672-1
Rotational Speed, Centrifuge ⁵	5 rpm to 5000 rpm	0.01 % + 1 rpm	Tachometer Sanas TR-45
Stroboscope	5 rpm to 15000 rpm	0.01 % + 1 rpm	Tachometer Sanas TR-45
Mass Calibration	1 mg to 20 mg 20 mg to 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg, 100 kg 200 kg	2.0 µg 4.8 µg 6 µg 7 µg 9 µg 15 µg 15 µg 25 µg 50 µg 0.10 mg 0.24 mg 0.48 mg 0.80 mg 2.7 mg 5.5 mg 12 mg 0.60 g 2.8 g	Comparison method by using Mass comparator & weighing balance & E1/F1 Class Weight set OIML R 111-1, ASTM E617

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	500 kg 1000 kg 2000 kg	9.2 g 20 g 25 g	
Pipettes	1 µL to 10 µL 10 µL to 100 µL 100 µL to 200 µL 200 µL to 500 µL 500 µL to 1000 µL 1 mL to 10 mL	0.13 µL 0.2 µL 0.4 µL 0.7 µL 1.5 µL 2 µL	Class E1 Weights & Micro Balances by comparison method ISO 8655-2 ISO 8655-6 ISO/TR 20461
Gravimetric Volume Calibration – (Laboratory Glassware, Density cup, Measuring Jar)	1 mL to 5 mL 5 mL to 25 mL 25 mL to 50 mL 50 mL to 100 mL 100 mL to 250 mL 250 mL to 500 mL 500 mL to 1000 mL 1 L to 2 L	2 µL 5 µL 7 µL 10 µL 25 µL 50 µL 110 µL 250 µL	Comparison Method by using Class F1 Weights and Weighing Instrument
Proving Tanks – Gravimetric Calibration	2 L to 1000 L	0.015 %+0.12 mL	Comparison Method by using Class F1 Weights and Weighing Instrument NIST Handbook 105-3, OIML R 120, EURAMET cg 19
Proving Tanks – Volumetric Calibration	50 L to 5000 L	0.04 %	Comparison Method using neck scale volume prover Based on NIST SP 250-72; API MPMS 4.9.2:2015
Mass/Volume Flow Meter ⁵	10 m ³ /h to 1000 m ³ /h	0.02 %	Comparison method by using Small Volume Piston Prover
Mass Flow Meter	1 kg/s to 1000 kg/min	0.05 %	Comparison Method by using Class F1 Weights and Weighing Instrument
Calibration of displacement provers by water draw method – Volumetric ⁵	5 L to 200 L	0.04 %	Comparison Method by using Standard test measure API MPMS 4.9.1 API MPMS 4.9.2, API MPMS 12.2.4
Calibration of displacement provers by water draw method - Gravimetric	2 L to 600 L	0.04 %	Comparison Method by using Class F1 Weights and Weighing Instrument API MPMS 4.9.1, API MPMS 4.9.4

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Analytical, Laboratory and Industrial Weighing Balances ⁵	1 mg to 10 g 10 g to 100 g 100 g to 500 g 500 g to 1000 g 1 kg to 10 kg 10 kg to 35 kg 35 kg to 500 kg 500 kg to 2000 kg 2000 kg to 20000 kg	0.07 mg 0.14 mg 0.30 mg 0.75 mg 6.7 mg 0.08 g 3.2 g 8.0 g 3.0 kg	Class E1, F1 and M1 Weights OIML R 76-1 OIML R 76-2 OIML R 47
Gas Flow Meter	0.2 L/min to 2 L/min 2 L/min to 500 L/min 467 L/min to 4670 L/min	0.21 % 0.44 % 0.8 %	Laminar Flow Element by Comparison method
Gas Flow Meter	0.25 m ³ /h to 6500 m ³ /h	0.20 %	Direct method by using critical flow nozzle. ISO 9300, PTB Testing Instructions Volume 25
Force – Calibration of push pull gages, Dynamometers/load cells (tension and compression)	1 N to 1 kN 1 kN to 500 kN	0.2 % 0.50 %	Comparison Method by using Reference Ultra Precision Load Cell and Standard Weights (up to 1 kN)
Force –UTMs (Tension) ⁵	1 N to 500 kN	0.47 %	Reference load cells and Ultra Precision Load Cell. BS EN ISO 7500-1:2018
Force – UTMs ⁵ (Compression)	1 N to 500 kN 500 kN to 2500 kN	0.45 % 0.17 %	Reference load cells and Ultra Precision Load Cell BS EN ISO 7500-1:2018
Vibration Meter Velocity Acceleration	(7 Hz to 10 kHz) Up to 196 m/s Up to 380 m/s ²	1.7 % 1.7 %	Direct method by using Portable Vibration Calibrator
Density meters – medium water	990 kg/m ³ to 1010 kg/m ³	0.08 kg/m ³	Procedure ACL-SOP-080 based on ISO 15212-1:1998 and 15212-2:2002
Anemometer and Pitot tube (only for Air velocity)	0.5 m/s to 25 m/s	0.8 %	Procedure ACL-SOP-083 based on ISO 17713-1:2007
Thermal			
Calibration Bath, Dry Block Calibrator	-80 °C to 400 °C 400 °C to 900 °C	0.04 °C 0.23 °C	Reference PRT Probe with Readout & Type R Thermocouple with DMM (Single sensor method)

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			DKD R 5-7, EURAMET CG-13
Liquid-in-Glass Thermometers	-40 °C to 150 °C 150 °C to 450 °C	0.06 °C 0.25 °C	Reference PRT probe with Readout OIML R 133
IR Thermometer / Thermovision Camera / Pyrometer	-30 °C to 150 °C 150 °C to 700 °C 700 °C to 1000 °C	0.37 °C 2 °C 5 °C	Portable IR Calibrator & Blackbody Source MSL technical Guide -22
Temperature & Humidity indicating/ recording Instruments	10 %RH to 95 %RH 18 °C to 28 °C	1 %RH 0.2 °C	Direct Comparison by using Humidity Generator
Ovens, Incubators, Autoclave, Climatic Chambers, Freezers, Refrigerators, Furnace ⁵	-18 °C to 100 °C 100 °C to 200 °C 200 °C to 700 °C 700 °C to 1200 °C	0.85 °C 1.5 °C 3.9 °C 3.3 °C	Sensor and Data Acquisition Unit (Single Sensor Method) DKD R 5-7, EURAMET CG-20
Temperature sensors with and without Indicator ⁵	-196 °C -80 °C to -40 °C -40 °C to 140 °C 140 °C to 650 °C 650 °C to 1450 °C	0.03 °C 0.02 °C 0.03 °C 0.034 °C 3 °C	Reference PRT Probe with Readout & Type R Thermocouple with DMM DKD R 5-7, EURAMET CG-20
Electrical – DC/LF			
Temperature Measurement by Electrical Simulation - Generate ^{3,5} Pt-100 Thermocouple Type K Type J	-200 °C to 600 °C -200 °C to 1200 °C -200 °C to 1200 °C	0.13 °C 0.41 °C 0.30 °C	Multifunction Calibrator EURAMET CG-11
Temperature Measurement by Electrical Simulation – Measure ^{4,5} Pt-100 Thermocouple Types K / J	-200 °C to 600 °C -200 °C to 1200 °C	0.06 °C 0.43 °C	Precision Thermometer Readout EURAMET CG-11
DC Voltage – Generate ³	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	2.4 µV 12 µV 120 µV 1.6 mV 16 mV	Multifunction Calibrator EURAMET CG-15
AC Voltage - Generate ³	(50 Hz/60 Hz)		Multifunction Calibrator

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AC Voltage - Generate ³ (continued)	1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V (1 kHz) 1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V (10 kHz) 1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V (100 kHz) 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V	18 µV 160 µV 1.6 mV 16 mV 180 mV 18 µV 160 µV 1.6 mV 16 mV 180 mV 18 µV 160 µV 1.6 mV 20 mV 180 mV	EURAMET CG-15
DC Current - Generate ³	0 µA to 10 µA 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 2.5 A 2.5 A to 10 A 10 A to 20 A	22 nA 35 nA 140 nA 1.1 µA 9.7 µA 190 µA 770 µA 4.4 mA 16 mA	Multifunction Calibrator EURAMET CG-15
AC Current – Generate ³	(50 Hz/60 Hz) 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 2.5 A 2.5 A to 10 A 10 A to 20 A (1 kHz) 10 µA to 100 µA 100 µA to 1 mA	180 nA 890 nA 4.7 µA 47 µA 480 µA 1.2 mA 6.2 mA 23 mA 180 nA 890 nA	Multifunction Calibrator EURAMET CG-15

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AC Current – Generate ³ (continued)	1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 2.5 A 2.5 A to 10 A 10 A to 20 A (10 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 2.5 A	4.8 µA 47 µA 480 µA 1.2 mA 9.3 mA 27 mA 780 nA 8.2 µA 48 µA 480 µA 23 mA 52 mA	
DC Resistance - Generate ³	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	1.6 mΩ 4.3 mΩ 31 mΩ 310 mΩ 3.1 Ω 35 Ω 1.5 kΩ 53 kΩ	Multifunction Calibrator EURAMET CG-15
Capacitance - Generate ^{3,6}	(10 Hz to 1 kHz) 200 pF to 10 nF 10 nF to 100 nF 100 nF to 1 µF 1 µF to 10 µF 10 µF to 100 µF (100 Hz) 100 µF to 1000 µF (100 Hz) 1 mF to 10 mF 10 mF to 100 mF	36 pF 360 pF 3.7 nF 36 nF 560 nF 5.6 nF 56 µF 1.2 µF	Multifunction Calibrator EURAMET CG-15
Frequency - Generate ³	0 Hz to 10 Hz 10 Hz to 100 Hz 100 Hz to 900 Hz 900 Hz to 5 kHz 5 kHz to 50 kHz 50 kHz to 500 kHz 500 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 50 MHz 50 MHz to 100 MHz 100 MHz to 300 MHz	12 mHz 14 mHz 29 mHz 120 mHz 980 mHz 1.5 Hz 2 Hz 19 Hz 97 Hz 190 Hz 580 Hz	Multifunction Calibrator EURAMET CG-15

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DC Current Clamp	0 A to 40 A 40 A to 100 A 100 A to 400 A 400 A to 750 A 750 A to 1000 A	340 mA 650 mA 2.5 A 4.4 A 5.7 A	By Direct Measurement using Multifunction Calibrator + Current Coil
AC Current Clamp	(50 Hz) 0.1 A to 40 A 40 A to 100 A 100 A to 250 A 250 A to 400 A 400 A to 750 A 750 A to 1000 A (100 Hz) 0.1 A to 40 A 40 A to 100 A 100 A to 250 A 250 A to 400 A 400 A to 750 A 750 A to 1000 A	480 mA 830 mA 2.3 A 3.2 A 5.2 A 6.7 A 670 mA 1.3 A 3.4 A 4.9 A 8.5 A 11 A	By Direct Measurement using Multifunction Calibrator + Current Coil
DC Voltage – Measure ^{4,5}	0 mV to 10 mV 10 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	1.6 μV 7.7 μV 71 μV 860 μV 18 mV	Direct method by using 8½ digit Digital Multimeter
AC Voltage – Measure ^{4,5}	(50 Hz/60 Hz) 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V (1 kHz) 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V (100 kHz) 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 320 V	70 μV 700 μV 7 mV 70 mV 760 mV 30 μV 300 μV 3 mV 40 mV 650 mV 680 μV 6.8 μV 68 mV 41 mV 980 mV	Direct method by using 8½ digit and 6½ digit Digital Multimeter

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DC Current - Measure ^{4,5}	0 µA to 1 µA 1 µA to 10 µA 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	580 pA 630 pA 2.4 nA 21 nA 210 nA 3.6 µA 110 µA	Direct method by using 8½ digit Digital Multimeter
	1 A to 5 A 5 A to 10 A 10 A to 20 A	30 mA 45 mA 75 mA	Direct Method by using Multifunction Electrical Tester Calibrator
AC Current - Measure ^{4,5}	(50 Hz/60 Hz) 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	90 nA 810 nA 8 µA 80 µA 1 mA	Direct method by using 8½ digit Digital Multimeter
	(50 Hz/60 Hz) 1 A to 5 A 5 A to 10 A 10 A to 20 A	30 mA 45 mA 75 mA	Direct Method by using Multifunction Electrical Tester Calibrator
	(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	90 nA 500 nA 5 µA 50 µA 1.2 mA	Direct method by using 8½ digit Digital Multimeter
	(1 kHz) 1 A to 5 A 5 A to 10 A 10 A to 20 A	30 mA 45 mA 75 mA	Direct Method by using Multifunction Electrical Tester Calibrator
DC Resistance - Measure ⁴	50 µΩ to 1000 µΩ 1 mΩ to 200 mΩ 200 mΩ to 1 Ω	0.15 µΩ 0.03 mΩ 0.5 mΩ	V/I= R method by using Multiproduct Calibrator & DMM 8½
	1 Ω to 99 Ω 99 Ω to 499 Ω 499 Ω to 999 Ω 0.999 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1000 kΩ 1000 kΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 10 GΩ	1.6 mΩ 6.8 mΩ 14 mΩ 260 mΩ 1.2 Ω 17 Ω 830 Ω 0.006 MΩ 0.006 GΩ	Direct method by using 8½ digit Digital Multimeter
High Voltage AC/DC Measure ^{4,5}	(50 Hz) 1 kV to 25 kV	0.6 %	High Voltage Divider and Digital Multimeter

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High Voltage AC/DC Measure ^{4,5} (continued)	25 kV to 60 kV 60 kV to 120 kV (DC) 1 kV to 40 kV 40 kV to 60 kV 60 kV to 120 kV	1.2 % 0.75 % 0.35 % 1.0 % 0.75 %	HV Probe Fluke 80k-40 with Fluke 5320A IEC 60060-2,3
Insulation Resistance	(Up to 1 kV) 40 kΩ to 99.99 kΩ 0.1 MΩ to 0.999 MΩ 1 MΩ to 99 MΩ 0.1 GΩ to 10 GΩ 100 Fixed GΩ (Up to 5 kV) 350 MΩ to 999 MΩ 1 GΩ to 9.9 GΩ 10 GΩ to 199.9 GΩ 200 GΩ to 999.9 GΩ	0.6 kΩ 0.004 MΩ 0.56 MΩ 0.09 GΩ 3.1 GΩ 9.3 MΩ 0.093 GΩ 3.8 GΩ 19 GΩ	Multifunction Electrical Tester Calibrator with HV Adaptor/ Resistance Multiplier Direct Method
Low Voltage Resistance / Earth Tester	0.1 Ω to 4.99 Ω 5 Ω to 99.99 Ω 100 Ω to 999.9 Ω 1 kΩ to 10 kΩ	0.03 Ω 0.2 Ω 1.7 Ω 0.015 kΩ	Multifunction Electrical Tester Calibrator with HV Adaptor/ Resistance Multiplier Direct Method
RCD Tester Trip Current Trip Time	3 mA to 3000 mA 10 ms to 5000 ms	1.2 % 0.03 % + 0.25 ms	Direct Method by using Multi- function Electrical tester Calibrator
Oscilloscope DC Gain (50 Ω and 1 MΩ load) Bandwidth Time Base	0 V to 6.6 V 0 V to 130 V 5 mV to 5.5 V p-p (50 Hz Reference) (50 kHz to 100 MHz) (100 MHz to 600 MHz) 2 ns to 50 ms 50 ms to 5 s	0.35 % + 0.04 mV 0.35 % + 0.04 mV 3 % + 300 μV 4 % + 300 μV 6 % + 300 μV 0.05 ps to 1.3 μs 0.25 ms	Multifunction calibration with scope option and RF Reference Source Fluke 96270A/LL/HF EURAMET CG-7
Welding Machine- DC Current ⁵	20 A to 50 A 50 A to 250 A 250 A to 500 A 500 A to 3000 A	0.2 A 2.7 A 4.7 A 3 A	Current Shunt & DMM 8½ by V/R measurement.
AC Power & Energy ⁵ @ PF ±0.5 to 1 (1φ & 3 φ)	(40 Hz to 500 Hz) 5 V to 560 V 1 mA to 120 A	0.07 %	Direct-Comparison measurement by using 3- Phase Power Calibrator

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Micro Ohm Meter	50 $\mu\Omega$ 100 $\mu\Omega$ 150 $\mu\Omega$ 200 $\mu\Omega$ 0.5 m Ω 1.0 m Ω 1.5 m Ω 1.5 m Ω to 2.0 Ω	0.45 % 0.25 % 0.15 % 0.1 % 0.05 % 0.03 % 0.02 % 0.02 %	Direct Method by using Micro Ohm Standard
Capacitance – Measure @ 1 kHz	300 pF to 100 nF 100 nF to 10 μ F 10 μ F to 50 μ F	1.8 pF 9 pF 0.6 nF	Direct-Comparison method using LCR meter
Inductance Measure @ 1 kHz	100 μ H to 1 mH 1 mH to 1 H 1 H to 10 H	0.5 μ H 4 μ H 0.71 mH	Direct-Comparison method using LCR meter
<i>RF/Microwave and Electromagnetics</i>			
RF & Microwave Power - Generate ³	(0.2 kHz to 100 kHz) -048 dBm to +24 dBm (0.1 MHz to 10 MHz) -048 dBm to +24 dBm -74 dBm to -48 dBm -94 dBm to -74 dBm (10 MHz to 128 MHz) -048 dBm to +24 dBm -84 dBm to -48 dBm -94 dBm to -84 dBm -130 dBm to -94 dBm (128 MHz to 300 MHz) -048 dBm to +20 dBm -74 dBm to -48 dBm -94 dBm to -74 dBm -130 dBm to -94 dBm (0.2 GHz to 1.4 GHz) -048 dBm to +20 dBm -84 dBm to -48 dBm -130 dBm to -84 dBm (1.4 GHz to 4 GHz) -74 dBm to +14 dBm -94 dBm to -74 dBm -130 dBm to -94 dBm (-85 dBm to +16 dBm)	0.04 dB 0.06 dB 0.25 dB 0.56 dB 0.06 dB 0.15 dB 0.36 dB 0.8 dB 0.09 dB 0.13 dB 0.53 dB 1.6 dB 0.25 dB 0.53 dB 1.6 dB 0.53 dB 1.6 dB 1.9 dB	RF Reference Source Fluke 96270A/LL/HF NIST Technical note 2079

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RF & Microwave Power - Generate ³ (continued)	1 kHz to 100 MHz 0.1 GHz to 1 GHz 1 GHz to 2.4 GHz 2.4 GHz to 8 GHz 8 GHz to 12 GHz 12 GHz to 18 GHz 18 GHz to 22 GHz 22 GHz to 26.5 GHz	0.43 % 0.57 % 0.70 % 0.88 % 1.0 % 1.2 % 1.6 % 2.5 %	
Time and Frequency			
Time Interval Measure ⁴ , Stopwatch	100 ms to 36000 s	0.04 s	Direct Method by using Counter NIST 960-12
Frequency –Measure ⁴	10 Hz to 350 MHz	0.001 %	Direct Method by using Counter
Chemical			
pH Meter ⁵	4 pH 7 pH 10 pH	0.04 pH	Direct method by using Standard Reference Buffer Solution
Conductivity Meter ⁵	1.413 mS/cm	0.04 mS/cm	Direct method by using Standard Reference Buffer Solution
Gas detectors and Monitors ⁵ :			Direct measurement with certified gases.
Hydrogen Sulfide	Up to 50 x 10 ⁻⁶	2.7 %	Procedure ACP-SOP-082 Based on
LEL Detector (Methane, Ethane, Propane, Butane and Hydrogen)	Up to 50 % LEL	2 %	IEC 62990-2:2021 IEC 60079-29-2:2015 ANSI/ISA 92.00.01:2010(R2015) ANSI/ISA 12.13.01:2013
Carbon monoxide	Up to 300 x 10 ⁻⁶	2.0 %	
Carbon dioxide	Up to 1000 x 10 ⁻⁶	2 %	
Ammonia	Up to 50 x 10 ⁻⁶	2.2 %	
Sulphur dioxide	Up to 20 x 10 ⁻⁶	2.2 %	
Chlorine	Up to 5 x 10 ⁻⁶	2.3 %	
Oxygen	Up to 20.9 %	2 %	
Nitrogen	Up to 100 %	2 %	
Nitric Oxide	Up to 150 x 10 ⁻⁶	2.1 %	

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Nitrogen dioxide	Up to 100 x 10 ⁻⁶	2.1 %	
Sulphur Hexa fluoride	Up to 100 %	2 %	
Isobutylene	Up to 100 x 10 ⁻⁶	2 %	
Benzene	Up to 100 x 10 ⁻⁶	2 %	

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CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Calipers (Dial/ vernier/ Digital)	0 mm to 600 mm	7.9 µm	Direct method by using Reference gauge blocks & Long gauge blocks EN ISO 13385-1
External micrometer	0 mm to 25 mm 25 mm to 100 mm 100 mm to 300 mm	2.0 µm 7.4 µm 10 µm	Direct method by using Reference gauge blocks & Long gauge blocks BS 870
Dial Gauge - Plunger Type	0 mm to 25 mm	2.0 µm	Direct method by using Dial Calibration Tester BS EN ISO 463, BS 907
Mechanical			
Pressure Indicating Instruments (Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter / Transducer / Switch / Recorder)	0 bar to 2 bar 2 bar to 20 bar 20 bar to 50 bar 50 bar to 2000 bar	0.32 mbar 0.01 % 0.01 % 0.07 %	Comparison method by using Reference Pressure Calibrator & Direct method by using Dead Weight Tester EURAMET cg-17
Vacuum Indicating Instruments (Gauge, Indicator, Calibrator, Controller, Transmitter / Transducer / Switch / Recorder)	-0.9 bar to 0 bar	0.1 mbar	Comparison method by using Reference Pressure Calibrator

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Torque Wrench & Torque Tools	1.2 N m to 60 N m 60 N m to 1500 N m	0.21 % 0.08 %	Direct Method by using-Torque Tool Tester ISO 6789-2
Analytical, Laboratory and Industrial Weighing Balances	100 mg to 1 kg 1 kg to 100 kg	9 mg 90 mg	Class F1 and M1 Weights OIML R-76-1 OIML R.76-2 OIML R 47
Volume Flow Meter	10 m ³ /h to 1000 m ³ /h	0.041 %	Comparison method by using Small Volume Piston Prover
Proving Tanks – Gravimetric Calibration	2 L to 1000 L	0.004 %	Comparison Method by using Class F1 Weights and Weighing Instrument NIST Handbook 105-3, OIML R 120, EURAMET cg 19
Proving Tanks – Volumetric Calibration	50 L to 5000 L	0.05 %	Comparison method using neck scale volume prover based on NIST SP 250-72, API MPMS 4.9.2:2015
Volume Flow Meters by Master meter	15 m ³ /h to 400 m ³ /h	0.12 %	Comparison method by using Master meter
Calibration of displacement provers by water draw method – Volumetric & Gravimetric	5 L to 5000 L	0.035 %	Comparison Method by using Standard test measure, Class F1 Weights and Weighing Instrument API MPMS 4.9.2 & API MPMS 4.9.4
Calibration of displacement provers by Master meter method	100 L to 20000 L	0.12 %	Comparison method by using Master meter & Small Volume Prover API MPMS 4.9.3
Thermal			
Temperature sensors with and without Indicator	-30 °C to 400 °C	0.1 °C	Reference PRT Probe DKD R 5-1, EURAMET CG-08
Electrical – DC/LF			
Temperature Measurement by Electrical Simulation - Generate ^{3,5} Pt-100	-200 °C to 600 °C	0.13 °C	Using Multifunction Calibrator EURAMET CG -11
Thermocouple Type K Type J	-200 °C to 1200 °C -200 °C to 1200 °C	0.41 °C 0.30 °C	
Temperature Measurement by Electrical Simulation – Measure ^{4,5}			

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PT-100	-200 °C to 600 °C	0.09 °C	Using Temperature Calibrator EURAMET CG -11
Thermocouple Types K / J	-200 °C to 1200 °C	0.43 °C	Using Multifunction Calibrator EURAMET CG -11
DC Voltage – Generate ³	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	13 µV 95 µV 1 mV 10 mV 83 mV	Multifunction Calibrator EURAMET CG -15
AC Voltage - Generate ³	(50/60 Hz) 30 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 750 V (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 750 V (10 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 (100 kHz) 1 mV to 100 mV 100 mV to 1 V 1 V to 30 V	0.3 mV 1.1 mV 5.4 mV 65 mV 0.53 V 0.3 mV 1.1 mV 1.4 mV 11 mV 0.2 V 0.3 mV 1.1 mV 1.4 mV 20 mV 0.58 V 0.5 mV 48 mV 0.11 V	Multifunction Calibrator EURAMET CG -15
DC Current - Generate ³	0 µA to 10 µA 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 2.5 A 2.5 A to 10 A	60 nA 74 nA 220 nA 1.7 µA 14 µA 230 µA 2.4 mA 7.5 mA	Multifunction Calibrator EURAMET CG -15

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AC Current – Generate ³	(50/60 Hz) 33 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 2.5 A 2.5 A to 10 A (1 kHz) 33 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 2.5 A 2.5 A to 10 A (10 kHz) 33 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 0.3 A	64 nA 140 nA 14 μ A 140 μ A 1.5 mA 4.1 mA 12 mA 63 nA 1.5 μ A 16 μ A 140 μ A 1.6 mA 12 mA 41 mA 1.7 μ A 7.3 μ A 71 μ A 730 μ A 2.2 mA	Multifunction Calibrator EURAMET CG -15
DC Resistance - Generate ³	0 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω	13 m Ω 29 m Ω 140 m Ω 1.4 Ω 21 Ω 250 Ω 7.6 k Ω 59 k Ω	Multifunction Calibrator EURAMET CG -15
Capacitance - Generate ^{3,6}	(1 kHz) 330 pF to 10 nF 10 nF to 100 nF 100 nF to 1 μ F 1 μ F to 10 μ F 10 μ F to 100 μ F	91 pF 720 pF 7.2 nF 56 nF 700 nF	Multifunction Calibrator EURAMET CG -15
Frequency - Generate ³	0 Hz to 10 Hz 10 Hz to 100 Hz 100 Hz to 900 Hz 900 Hz to 5 kHz 5 kHz to 50 kHz 50 kHz to 500 kHz 500 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 50 MHz	2.9 mHz 0.029 Hz 0.26 Hz 1.4 Hz 14 Hz 140 Hz 290 Hz 0.29 KHz 1.4 KHz	Multifunction Calibrator EURAMET CG -15

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	50 MHz to 100 MHz 100 MHz to 300 MHz	29 kHz 87 kHz	
DC Current Clamp	20 A to 40 A 40 A to 100 A 100 A to 500 A	340 mA 650 mA 2.5 A	By Direct Measurement using Multifunction Calibrator + Current Coil
AC Current Clamp	(50 Hz) 20 A to 40 A 40 A to 100 A 100 A to 250 A 250 A to 500 A (100 Hz) 20 A to 40 A 40 A to 100 A 100 A to 250 A 250 A to 500 A	480 mA 830 mA 2.3 A 3.2 A 670 mA 1.3 A 3.4 A 4.9 A	By Direct Measurement using Multifunction Calibrator + Current Coil

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.

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

⁵Also available as site calibration. Note that actual measurement uncertainties achievable at a customer's site can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.

⁶Stated uncertainties are valid for the ranges of frequencies given, but the actual frequency applied by the calibrator may be dependent on the measurement device under calibration.

p-p: peak to peak

