



CERTIFICATE OF ACCREDITATION

This is to attest that

UL INTERNATIONAL GERMANY GMBH
ADMIRAL - ROSENDAHL - STRASSE 23
NEU-ISENBURG 63263, FEDERAL REPUBLIC OF GERMANY

Calibration Laboratory CL-171

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 March 25, 2022

Expiration Date November 1, 2024



A handwritten signature in black ink, reading 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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UL INTERNATIONAL GERMANY GMBH

www.ul.com

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Accredited to ISO/IEC 17025:2017

Effective Date March 25, 2022

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (\pm)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Calibration of steel balls	Up to Dia. 60 mm	61 μ m	Cal procedure -89-LO-W0862 Using Digital Caliper by direct method
Calibration of Digital Caliper	0 mm to 150 mm	30 μ m	Cal procedure -89-LO-W0853 Using Sip Gauges Grade 0 & Ring Gauges of 4 mm and 25 mm by direct method
Mechanical			
Measurement of weights	500 g to 4000 g	2.9 g	Cal procedure -89-LO-W0863 Using Weights and Measuring Scale by comparison method
Tension meter calibration (for Surface Tension)	48 mN/m to 250 mN/m	0.18 mN/m	Cal procedure -89-LO-W0401 Using Reference weights & Thermometer by comparison method
Water flow meters	0 L/min to 1 L/min 1 L/min to 3 L/min 3 L/min to 5 L/min 5 L/min to 22 L/min	0.01 L/min 0.03 L/min 0.05 L/min 0.36 L/min	Cal procedure -89-LO-W0859 Using master water flow meter by comparison methods
Sound Level Meters	94 dB 114 dB	0.3 dB 0.6 dB	Cal Procedure -89-LO-W0851 Using Sound Level Calibrator by direct method (Fixed point)
Thermal			
Climatic chambers (Temperature)	-25 °C to 25 °C 25 °C to 75 °C 75 °C to 100 °C 100 °C to 200 °C	0.8 °C 0.8 °C 0.8 °C 1.7 °C	Cal procedure -89-LO-W0400 Using Multi Channel Data logger and Thermocouple by 9 points calibration & mapping 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.

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Climatic chambers (Humidity)	10 %RH to 95 %RH	1.8 %RH	Cal Procedure –89-LO-W0400 Using Humidity Sensor with Data logger by single sensor method at center position
Thermocouple	-40 °C to 140 °C 140 °C to 300 °C 300 °C to 700 °C	0.4 °C 1.8 °C 2.6 °C	Cal Procedure –22-LO-W0852 Using Dry Block Calibrator & Pt-100 / Type N reference sensor
Electrical – DC/LF			
Thermocouple Simulation Generate and Measure			Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method
Type J	-210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150 °C to 760 °C 760 °C to 1200 °C	0.6 °C 0.5 °C 0.6 °C 0.6 °C 0.6 °C	
Type T	-250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C	0.73 °C 0.29 °C 0.20 °C 0.17 °C	
Type K	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1372 °C	0.39 °C 0.22 °C 0.20 °C 0.31 °C 0.47 °C	
DC Voltage - Generate ³	0 mV to 329.9999 mV 0 V to 3.299999 V 0 V to 32.99999 V 30 V to 329.9999 V 100 V to 1000.000 V	28 x 10 ⁻⁶ + 1.2 µV 14 x 10 ⁻⁶ + 2.4 µV 15 x 10 ⁻⁶ + 24 µV 22 x 10 ⁻⁶ + 190 µV 22 x 10 ⁻⁶ + 1.9 mV	Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method
DC Current - Generate ³	0 µA to 329.999 µA 0 mA to 3.29999 mA 0 mA to 32.9999 mA 0 mA to 329.999 mA 0 A to 1.09999 A 1.1 A to 2.99999 A 0 A to 10.9999 A (20 A range) 11 A to 20.5 A (20 A range)	200 x 10 ⁻⁶ + 0.024 µA 120 x 10 ⁻⁶ + 0.059 µA 120 x 10 ⁻⁶ + 0.3 µA 120 x 10 ⁻⁶ + 3 µA 240 x 10 ⁻⁶ + 47 µA 450 x 10 ⁻⁶ + 47 µA 590 x 10 ⁻⁶ + 590 µA 1200 x 10 ⁻⁶ + 870 µA	Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method

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DC Current - Generate ³ continued	5 A to 50 A (5 Windings)	$590 \times 10^{-6} + 590 \mu\text{A} \times 5$	Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method
	55 A to 100 A (5 Windings)	$1200 \times 10^{-6} + 870 \mu\text{A} \times 5$	
	10 A to 100 A (10 Windings)	$590 \times 10^{-6} + 590 \mu\text{A} \times 10$	
	110 A to 200 A (10 Windings)	$1200 \times 10^{-6} + 870 \mu\text{A} \times 10$	
	20 A to 200 A (20 Windings)	$590 \times 10^{-6} + 590 \mu\text{A} \times 20$	
	220 A to 400 A (20 Windings)	$1200 \times 10^{-6} + 870 \mu\text{A} \times 20$	
	30 A to 300 A (30 Windings)	$590 \times 10^{-6} + 590 \mu\text{A} \times 30$	
	330 A to 400 A (30 Windings)	$1200 \times 10^{-6} + 870 \mu\text{A} \times 30$	
DC Resistance - Generate ³	0 Ω to 10.9999 Ω	$48 \times 10^{-6} + 0.012 \Omega$	Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method
	11 Ω to 32.9999 Ω	$36 \times 10^{-6} + 0.018 \Omega$	
	33 Ω to 109.9999 Ω	$33 \times 10^{-6} + 0.018 \Omega$	
	110 Ω to 329.9999 Ω	$33 \times 10^{-6} + 0.024 \Omega$	
	330 Ω to 1.099999 kΩ	$33 \times 10^{-6} + 0.024 \Omega$	
	1.1 kΩ to 3.299999 kΩ	$33 \times 10^{-6} + 0.24 \Omega$	
	3.3 kΩ to 10.99999 kΩ	$33 \times 10^{-6} + 0.12 \Omega$	
	11 kΩ to 32.99999 kΩ	$33 \times 10^{-6} + 2.4 \Omega$	
	33 kΩ to 109.9999 kΩ	$33 \times 10^{-6} + 2.4 \Omega$	
	110 kΩ to 329.9999 kΩ	$38 \times 10^{-6} + 12 \Omega$	
	330 kΩ to 1.099999 MΩ	$39 \times 10^{-6} + 12 \Omega$	
	1.1 MΩ to 3.299999 MΩ	$73 \times 10^{-6} + 180 \Omega$	
	3.3 MΩ to 10.99999 MΩ	$160 \times 10^{-6} + 290 \Omega$	
	11 MΩ to 32.99999 MΩ	$300 \times 10^{-6} + 2900 \Omega$	
33 MΩ to 109.9999 MΩ	$580 \times 10^{-6} + 3500 \Omega$		
110 MΩ to 329.9999 MΩ	$3.5 \times 10^{-3} + 120 \text{ k}\Omega$		
330 MΩ to 1100 MΩ	$18 \times 10^{-3} + 580 \text{ k}\Omega$		
AC Voltage - Generate ³	33 mV to 329.999 mV (45 Hz to 10 kHz)	$170 \times 10^{-6} + 9.3 \mu\text{V}$	Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method
	(10 kHz to 20 kHz)	$190 \times 10^{-6} + 9.3 \mu\text{V}$	
	(20 kHz to 50 kHz)	$410 \times 10^{-6} + 9.3 \mu\text{V}$	
	(50 kHz to 100 kHz)	$930 \times 10^{-6} + 37 \mu\text{V}$	
	0.33 V to 3.29999 V (45 Hz to 10 kHz)	$180 \times 10^{-6} + 70 \mu\text{V}$	

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AC Voltage - Generate ³ continued	(10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz)	220 x 10 ⁻⁶ + 70 μV 350 x 10 ⁻⁶ + 59 μV 810 x 10 ⁻⁶ + 150 μV	Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method
	3.3 V to 32.9999 V (45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz)	180 x 10 ⁻⁶ + 700 μV 280 x 10 ⁻⁶ + 700 μV 410 x 10 ⁻⁶ + 700 μV 1100 x 10 ⁻⁶ + 1.9 mV	
	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)	220 x 10 ⁻⁶ + 2.4 mV 240 x 10 ⁻⁶ + 7 mV 290 x 10 ⁻⁶ + 7 mV 350 x 10 ⁻⁶ + 7 mV 2400 x 10 ⁻⁶ + 58 mV	
	330 V to 1020 V (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	350 x 10 ⁻⁶ + 13 mV 300 x 10 ⁻⁶ + 13 mV 350 x 10 ⁻⁶ + 13 mV	
AC Current - Generate ³	0.33 mA to 3.2999 mA (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	1.2 x 10 ⁻³ + 0.18 μA 2.4 x 10 ⁻³ + 0.24 μA 5.8 x 10 ⁻³ + 0.35 μA	Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method
	3.3 mA to 32.999 mA (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	470 x 10 ⁻⁶ + 2.4 μA 930 x 10 ⁻⁶ + 2.4 μA 2.4 x 10 ⁻³ + 3.5 μA	
	33 mA to 329.99 mA (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	470 x 10 ⁻⁶ + 24 μA 1.2 x 10 ⁻³ + 58 μA 2.4 x 10 ⁻³ + 120 μA	
	0.33 A to 1.09999 A (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	0.7 x 10 ⁻³ + 120 μA 7 x 10 ⁻³ + 1.2 mA 29 x 10 ⁻³ + 5.8 mA	
	1.1 A to 2.99999 A (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	0.7 x 10 ⁻³ + 120 μA 7 x 10 ⁻³ + 1.2 mA 29 x 10 ⁻³ + 5.8 mA	
	3 A to 10.9999 A (45 Hz to 100 Hz)	0.7 x 10 ⁻³ + 2.4 mA	

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AC Current - Generate ³ continued	(100 Hz to 1 kHz) (1 kHz to 5 kHz) 11 A to 20.5 A (45 Hz to 100 Hz) (100 Hz to 1 kHz) (1 kHz to 5 kHz)	1.2 x 10 ⁻³ + 2.4 mA 35 x 10 ⁻³ + 2.4 mA 1.4 x 10 ⁻³ + 5.8 mA 1.8x 10 ⁻³ + 5.8 mA 35 x 10 ⁻³ + .8 mA	Cal Procedure –89-LO-W0412 Using Multifunction Calibrator by direct method
AC Current Supply (5 Windings)	15 A to 50 A (45 Hz to 1 kHz) 55 A to 120 A (45 Hz to 1 kHz)	700 x 10 ⁻⁶ + 2.4 mA x 5 1400 x 10 ⁻⁶ + 5.8 mA x 5	Cal Procedure –89-LO-W0413 and -89-LO-W0414 Using Multifunction Calibrator by direct method
AC Current Supply (10 Windings)	30 A to 100 A (45 Hz to 1 kHz) 110 A to 200 A (45 Hz to 100 Hz)	700 x 10 ⁻⁶ + 2.4 mA x 10 1400 x 10 ⁻⁶ + 5.8 mA x 10	
AC Current Supply (20 Windings)	60 A to 200 A (45 Hz to 100 Hz) 220 A to 400 A (45 Hz to 100 Hz)	700 x 10 ⁻⁶ + 2.4 mA x 20 1400 x 10 ⁻⁶ + 5.8 mA x 20	
AC Current Supply (30 Windings)	90 A to 300 A (45 Hz to 1 kHz) 330 A to 400 A (45 Hz to 100 Hz)	700 x 10 ⁻⁶ + 2.4 mA x 30 1400 x 10 ⁻⁶ + 5.8 mA x 30	
Shunt Calibration	1.00 A to 99.00 A	0.13 A	Cal Procedure –89-LO-W0415 Using Shunt Calibration Unit by direct method
Fixed Reference DC Resistances (4-wire reference resistance)	1 mΩ 5 mΩ 10 mΩ 20 mΩ 100 mΩ	2.4 % 1.2 % 1.2 % 1.2 % 1.2 %	Cal Procedure –89-LO-W0412 Using Reference Resistance Unit by direct method
Fixed Reference DC Resistances (2-wire reference resistance)	1.8 Ω 3 Ω 9 Ω 18 Ω	1.2 % 1.2 % 1.2 % 1.2 %	Cal Procedure –89-LO-W0412 Using Reference Resistance Unit by direct method

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Fixed Reference DC Resistances (2-wire reference resistance) continued	100 Ω 200 Ω 1.5 kΩ 10 kΩ 20 kΩ 90 kΩ 180 kΩ	1.2 % 1.2 % 1.2 % 1.2 % 1.2 % 1.2 % 1.2 %	Cal Procedure –89-LO-W0412 Using Reference Resistance Unit by direct method
DC Resistance - Measure ⁴ (3-wire method)	0 Ω to 500 Ω 500 Ω to 5 kΩ 5 kΩ to 50 kΩ	0.064 % + 0.087 Ω 0.064 % + 0.87 Ω 0.064 % + 12 Ω	Cal Procedure –89-LO-W0412 Using Reference Resistance Unit by direct method
DC Resistance - Measure ⁴ (4-wire method)	(50 mA & 500 mV) 1 Ω to 10 Ω (DC) (50 Hz) (1 kHz) (10 kHz) (50 mA & 5 V) 10 Ω to 100 Ω (DC) (50 Hz) (1 kHz) (10 kHz) (5 mA & 5 V) 100 Ω to 1000 Ω (DC) (50 Hz) (1 kHz) (10 kHz) (0.5 mA & 5 V) 1 kΩ to 10 kΩ (DC) (50 Hz) (1 kHz) (10 kHz)	0.032 % + 10 mΩ 0.35 % + 12 mΩ 0.46 % + 16 mΩ 0.52 % + 26 mΩ 0.032 % + 7.6 mΩ 0.35 % + 74 mΩ 0.69 % + 61 mΩ 0.73 % + 110 mΩ 0.032 % + 130 mΩ 0.35 % + 750 mΩ 0.69 % + 750 mΩ 0.73 % + 910 mΩ 0.032 % + 10 Ω 0.37 % + 12 Ω 0.70 % + 12 Ω 0.90 % + 13 Ω	Cal Procedure 89-LO-W0412 Using Fluke 5520A as current source, Fluke 289 to measure voltage drop
DC Voltage - Measure ⁴	0 mV to 50 mV 0 mV to 500 mV 0 V to 5 V 0 V to 50 V 0 V to 500 V 0 V to 1000 V	0.059 % + 0.024 mV 0.03 % + 0.024 mV 0.03 % + 0.24 mV 0.031 % + 2.4 mV 0.035 % + 24 mV 0.036 % + 240 mV	Cal Procedure –89-LO-W0419 Using Multimeter by direct method

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DC Current - Measure ⁴	0 µA to 500 µA 0 µA to 5000 µA 0 µA to 50 mA 0 mA to 400 mA 0 A to 5 A 0 A to 10 A	0.095 % + 0.24 µA 0.089 % + 0.24 µA 0.062 % + 0.012 mA 0.18 % + 0.024 mA 0.36 % + 1.2 mA 0.36 % + 2.4 mA	Cal Procedure –89-LO-W0419 Using Multimeter by direct method
AC Voltage - Measure ⁴	0 mV to 50 mV (45 Hz to 65 Hz) (65 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 100 kHz) 0 mV to 500 mV (45 Hz to 65 Hz) (65 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 100 kHz) 0 V to 5 V (45 Hz to 65 Hz) (65 Hz to 10 kHz) 0 V to 50 V (45 Hz to 65 Hz) (65 Hz to 10 kHz) 0 V to 500 V (45 Hz to 65 Hz) (65 Hz to 10 kHz) 0 V to 1000 V (45 Hz to 65 Hz) (65 Hz to 10 kHz)	3500 x 10 ⁻⁶ + 29 µV 4700 x 10 ⁻⁶ + 29 µV 8100 x 10 ⁻⁶ + 47 µV 41 x 10 ⁻³ + 47 µV 3500 x 10 ⁻⁶ + 290 µV 4700 x 10 ⁻⁶ + 290 µV 8100 x 10 ⁻⁶ + 470 µV 41 x 10 ⁻³ + 470 µV 3500 x 10 ⁻⁶ + 2.9 mV 7000 x 10 ⁻⁶ + 2.9 mV 3500 x 10 ⁻⁶ + 29 mV 4700 x 10 ⁻⁶ + 29 mV 3500 x 10 ⁻⁶ + 290 mV 4700 x 10 ⁻⁶ + 290 mV 3500 x 10 ⁻⁶ + 2.9 V 4700 x 10 ⁻⁶ + 2.9 V	Cal Procedure –89-LO-W0419 Using Multimeter by direct method
AC Current - Measure ⁴	0 mA to 5 mA (45 Hz to 1 kHz) (1 kHz to 20 kHz) 0 mA to 50 mA (45 Hz to 1 kHz) (1 kHz to 20 kHz)	7100 x 10 ⁻⁶ + 0.59 µA 8300 x 10 ⁻⁶ + 1.2 µA 7300 x 10 ⁻⁶ + 24 µA 7700 x 10 ⁻⁶ + 24 µA	Cal Procedure –89-LO-W0419 Using Multimeter by direct method

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AC Current - Measure ⁴ continued	0 mA to 400 mA (45 Hz to 1 kHz) (1 kHz to 20 kHz)	$7 \times 10^{-3} + 59 \mu\text{A}$ $36 \times 10^{-3} + 120 \mu\text{A}$	Cal Procedure –89-LO-W0419 Using Multimeter by direct method
	0 A to 5 A (45 Hz to 1 kHz)	$9500 \times 10^{-6} + 2.4 \text{ mA}$	
	0 A to 10 A (45 Hz to 1 kHz)	$9500 \times 10^{-6} + 5.9 \text{ mA}$	
Sine Frequency - Measure ⁴	0 Hz to 99.999 Hz	$240 \times 10^{-6} + 5.9 \text{ mHz}$	Cal Procedure –89-LO-W0419 Using Multimeter by direct method
	0 Hz to 999.99 Hz	$59 \times 10^{-6} + 0.059 \text{ Hz}$	
	0 kHz to 9.9999 kHz	$59 \times 10^{-6} + 0.59 \text{ Hz}$	
	0 kHz to 99.999 kHz	$59 \times 10^{-6} + 5.9 \text{ Hz}$	
	0 kHz to 999.99 kHz	$59 \times 10^{-6} + 59 \text{ Hz}$	
Time and Frequency			
Time	10 s to 24 h	1.9 s	Cal Procedure –89-LO-W0420 Using Timer (Atomic Watch) by comparison method
Chemical & Gas			
Conductivity meter	15 μS to 150 mS	1.2 %	Cal Procedure –89-LO-W0402 Using Omega CA 150 Ref. electrolytic solution by direct method

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.