

CERTIFICATE OF ACCREDITATION



DUCOM (PVT) LTD

Address: Plot# C5-C, Khyaban-e-Ittehad Road, DHA Phase VII, Karachi - Pakistan

Under the Testing and Calibration Laboratories Program in Accordance with

ISO/IEC 17025:2017

The scope of activities covered by this certificate is defined below
**Providing Calibration Services for Electrical, Mechanical, Thermodynamic,
Acoustic, Optical, Weighing, Chemical & Fluid-measurement Instruments.**

This certificate issued under the following Conditions:

- 1: It applies only to the quality system maintained in the Testing & Calibration of above referenced model Products.
- 2: The certificate remains valid until the testing & calibration conditions or the quality systems are changed and is subject to continuous surveillance according to the ISO/IEC 17025 Standard.
- 3: The certificate validity is conditioned by annual surveillance audits

IAF NACE Code : K-74.30

REGISTRATION NUMBER

: 26PD1014001085

CERTIFICATE NUMBER

: AIS210MD260011025AL

REGISTRATION DATE

: September 17, 2026

ISSUE DATE

: September 17, 2026

CERTIFICATE EXPIRY

: September 16, 2027

RE CERTIFICATION DUE

: September 16, 2029



GBAR-ACCREDITED

USA

Authorized Signature

This registration was subject to the AIS terms and conditions, auditing and certification procedures. The certificate is subject to regular surveillance audits. To take care of the effectivity of certificate organization should have to Successfully pass the audits. While all due care and competence was practiced in carrying out the assessment, AIS accepts only responsibility for the proven gross negligence. this certificate remains the property of AIS. This document is copy right protected. Content could not be duplicated without the prior written permission of AIS. Any misapplication, modification and fabrication is unlawful.



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SCOPE OF ACCREDITATION

....ISO /IEC 17025:2017....



M/s DUCOM (PVT) LTD

Address: Plot C-5C, Khayaban-e-Ittehad, DHA Phase VII, Karachi - Pakistan

ISO/IEC 17025 Calibration Scope Parameters

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Digital Multimeter	DC voltage: 0–1000 V; AC voltage: 0–750 V; DC current: 0–10 A; AC current: 0–10 A; resistance: 0–100 M Ω	DCV ± 0.05 % of reading + 0.02 % FS; ACV ± 0.10 % of reading + 0.03 % FS; current ± 0.20 % of reading + 0.05 % FS; resistance ± 0.10 % of reading + 0.03 % FS (k=2)	Traceable multifunction electrical calibrator; traceable reference DMM; certified electrical standards	EURAMET cg-15, Guidelines on the Calibration of Digital Multimeters, Version 3.0; DUCOM controlled electrical calibration procedure	-	F
Electrical	Clamp Meter	AC/DC current: 0–1000 A; frequency: 45–65 Hz for AC current	± 0.50 % of reading + 0.10 % FS (k=2)	Traceable AC/DC current source or multifunction calibrator; traceable reference DMM; current-loop/clamp fixture	DUCOM controlled clamp-meter calibration procedure based on EURAMET cg-15 principles for electrical current measurement and manufacturer procedure	-	F
Electrical	Insulation Resistance Tester / Megger	Test voltage: 50 V–1000 V DC; insulation resistance: 0.1 M Ω –10 G Ω	Test voltage ± 1.0 % of reading; insulation resistance ± 2.0 % of reading (k=2)	Traceable high-resistance decade/standard; traceable high-voltage source/voltage reference; leakage/reference resistance standards	IEC 61557-2 requirements and manufacturer calibration procedure; DUCOM controlled insulation-resistance calibration procedure	-	F
Electrical	Earth Resistance Tester	Earth/ground resistance: 0.1 Ω –2000 Ω ; test current/voltage as applicable to instrument	± 2.0 % of reading + 0.2 Ω (k=2)	Traceable resistance standards/decade box; earth-resistance calibration simulator/test system; traceable electrical reference standards	IEC 61557-5 requirements and manufacturer calibration procedure; DUCOM controlled earth-resistance calibration procedure	-	F
Mechanical	Pressure Gauge	Gauge pressure: 0–10 bar	± 0.05 bar (k=2)	Traceable digital pressure calibrator/reference standard; pressure source; fittings and temperature/barometric reference as applicable	EURAMET cg-17, Guidelines on the Calibration of Electromechanical and Mechanical Manometers, Version 4.1 (2022)	-	O

Mechanical	Digital Pressure Calibrator	Gauge pressure: 0–40 bar	± 0.02 % FS (k=2)	Traceable pressure reference	EURAMET cg-17, Version 4.1 (2022); manufacturer procedure	-	F
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				standard/calibrator; pressure source; temperature and atmospheric-pressure reference as applicable		-	
Thermodynamic	Digital Thermometer	Temperature: -20 °C to +200 °C	± 0.20 °C (k=2)	Traceable reference thermometer; calibrated dry-block temperature source/liquid bath; temperature reference standards	EURAMET calibration guidance for thermometry; manufacturer procedure; DUCOM controlled thermometer calibration procedure	-	F
Thermodynamic	Temperature / Humidity Meter	Temperature: 10 °C to 50 °C; relative humidity: 20 %RH to 90 %RH	Temperature ± 0.30 °C; RH ± 2.5 %RH (k=2)	Traceable temperature/RH reference meter; calibrated temperature-humidity chamber/source; reference thermometer and RH standard	EURAMET cg-20 principles for temperature/humidity controlled environments; manufacturer procedure; DUCOM controlled T/RH calibration procedure	-	F
-Acoustic	Sound Level Meter	Sound pressure level: 30–130 dB; calibration/check frequency: 1 kHz; Class 1/2 instruments as applicable	± 0.3 dB (k=2)	Class 1 acoustic calibrator conforming to IEC 60942; traceable reference microphone/acoustic measurement system	IEC 61672-3:2013, Electroacoustics — Sound level meters — Part 3: Periodic tests; IEC 60942 for sound calibrator	-	O
Optical	Lux Meter	Illuminance: 10–20,000 lx	± 3.0 % of reading (k=2)	Traceable photometric/illuminance reference standard; calibrated standard lamp/LED source; reference photometer	ISO/CIE 19476:2014, Characterization of the performance of illuminance and luminance meters	-	F
Mechanical	Tachometer	Rotational speed: 10–10,000 rpm	± 0.10 % of reading (k=2)	Traceable rotational-speed reference/calibrator; traceable frequency/timebase reference; optical/mechanical speed source	Manufacturer calibration procedure using traceable rotational-speed reference; DUCOM controlled tachometer calibration procedure	-	F
Mass, Force, and Weighing Devices	Weighing Balance / Digital Balance	Capacity: 0–30 kg; readability according to balance model; verification/calibration points distributed over the operating range	± 0.05 % of reading (k=2), subject to balance capacity/readability	OIML/ASTM-class calibrated reference weights with traceability; calibrated environmental thermometer/barometer where required	EURAMET cg-18, Guidelines on the Calibration of Non-Automatic Weighing Instruments, Version 4.0 (2022)	-	F
Chemical	pH Meter	pH: 2.00–12.00	± 0.02 pH (k=2)	Certified pH buffer reference materials, traceable to national/international	ASTM E70-24, Standard Test Method for pH of Aqueous Solutions With the Glass Electrode; manufacturer procedure	-	F

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				standards; calibrated temperature reference			
Electrical	Conductivity Meter	Electrical conductivity: 10–200,000 $\mu\text{S}/\text{cm}$	± 1.0 % of reading ($k=2$)	Certified conductivity reference materials/standards; traceable temperature reference; conductivity cell/check standard	ASTM D1125-23, Standard Test Methods for Electrical Conductivity and Resistivity of Water	-	F
Fluid Quantities	Flow Meter	Liquid flow: 0.1–100 L/min; water at controlled laboratory conditions	± 0.50 % of reading ($k=2$)	Traceable volumetric/gravimetric flow reference system; calibrated weighing system; calibrated time standard; temperature reference	ISO 4185, Measurement of liquid flow in closed conduits — Weighing method; DUCOM controlled flow calibration procedure	-	O