TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Calibration Laboratory

DEVOTRANS ELEKTRİK MAKİNELERİ SANAYİ VE TİCARET LİMİTED ŞİRKETİ

Central Address: Y.AYAZMA SK.YILDIZ S ST.18/62-66-67-73-76 NO:80/104 ZEYTİNBURNU İstanbul / Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-0052-K

Accreditation Date : 31.12.2008

Revision Date / Number : 01.03.2023 / 13

This certificate shall remain in force until **01.08.2025**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

This document has been signed by Gülden Banu Müderrisoğlu on {1} with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

Accreditation Scope

Calibration
TS EN ISO/IEC 17025
AB-0052-K

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Accreditation Nr: AB-0052-K
Revision Nr: 13 Date: 01.03.2023

Calibration Laboratory

Address :
Y.AYAZMA SK.YILDIZ S ST.18/62-66-67-73-76 NO:80/104 ZEYTİNBURNU
İstanbul / Türkiye

Phone : +90 212 482 0988
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Website : www.dvtlab.com

Calibration and Measurement Capability (CMC)

Material Testing Machines

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Material Testing Machines Tensile / Compression Testing Machine	1 N ≤ *F* ≤ 500 N	Sprung mass set with tension and compression	% 0,10	F: Applied force (N) • Calibration at the customer's premises
Material Testing Machines Tensile / Compression Testing Machine	100 N ≤ *F* ≤ 100 kN	Tension and compression with Class 1 load cell	% 0,32	F: Applied force (N) Prepared calibration procedure in accordance with TS EN ISO 7500-1 • Calibration at the customer's premises
Extensometer	0,5 mm ≤ *L* ≤ 300 mm	Extensometer Calibrator	(0,162.L + 0,9) µm	L : Measured Value (m) Prepared calibration procedure in accordance with TS EN ISO 9513 and ASTM E83 Standards • Calibration at the customer's premises

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Calibration and Measurement Capability (CMC)

Pressure

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Relative Pressure Analog Manometer Digital Manometer	10 kPa ≤ *P* ≤ 2,5 MPa	Pneumatic • If the ambient conditions differ from (20 ± 2)°C in the on-site calibrations the ambient calibration regulation is made	5 kPa	*p :* Relative Pressure, (Pa) Calibration procedure prepared in accordance with the EURAMET/cg-17 Guidelines of Electromechanical and Mechanical Manometers • In customer place • In the laboratory calibration is made.
Relative Pressure Analog Manometer Digital Manometer	2,5 MPa < *P* ≤ 10 MPa	Hydraulic • If the ambient conditions differ from (20 ± 2)°C in the on-site calibrations the ambient calibration regulation is made	20 kPa	*p :* Relative Pressure, (Pa) Calibration procedure prepared in accordance with the EURAMET/cg-17 Guidelines of Electromechanical and Mechanical Manometers • In customer place • In the laboratory calibration is made.
Relative Pressure Analog Manometer Digital Manometer	10 MPa < *P* ≤ 20 MPa	Hydraulic • If the ambient conditions differ from (20 ± 2)°C in the on-site calibrations the ambient calibration regulation is made	40 kPa	*p :* Relative Pressure, (Pa) Calibration procedure prepared in accordance with the EURAMET/cg-17 Guidelines of Electromechanical and Mechanical Manometers • In customer place • In the laboratory calibration is made.
Relative Pressure Analog Manometer Digital Manometer	20 MPa < *P* ≤ 30 MPa	Hydraulic • If the ambient conditions differ from (20 ± 2)°C in the on-site calibrations the ambient calibration regulation is made	60 kPa	*p :* Relative Pressure, (Pa) Calibration procedure prepared in accordance with the EURAMET/cg-17 Guidelines of Electromechanical and Mechanical Manometers • In customer place • In the laboratory calibration is made.

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Calibration and Measurement Capability (CMC)

Weighing Tools

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Non - Automatic Weight Instruments Balance	0,1 g ≤ *m* ≤ 500 g	E2 Class weight set	$2{,}2.10^{-6}$	*m:* Mass, g Calibration procedure prepared in accordance with the EURAMET/cg-18 • In customer place calibration is made.
Non - Automatic Weight Instruments Balance	500 g < *m* ≤10000 g	F1 Class weight set	$1{,}3.10^{-5}$	*m:* Mass, g Calibration procedure prepared in accordance with the EURAMET/cg-18 • In customer place calibration is made.

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Calibration and Measurement Capability (CMC)

Temperature

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Controlled Volumes (Temperature Distribution) Oven Incubator Cold Room (Deep Freezer etc.) Climate Chamber Sterilizer (Autoclave) Liquid Bath	-40°C ≤ *T* < -10 °C	Reference Datalogger	1,4 °C	According to Euramet cg-20, TS EN 60068-3-5, TS EN 60068-3-11, DKD-R 5-7 Guidance Documents with Portable Calibration System T: Measured Temperature • In customer place calibration is made
Controlled Volumes (Temperature Distribution) Oven Incubator Cold Room (Deep Freezer etc.) Climate Chamber Sterilizer (Autoclave) Liquid Bath	-10°C ≤ *T* ≤ 150°C	Reference Datalogger	1,0 °C	According to Euramet cg-20, DKD-R 5-7 Guidance Documents with Portable Calibration System T: Measured Temperature • In customer place calibration is made
Controlled Volumes (Temperature Distribution) Oven Incubator Cold Room (Deep Freezer etc.) Climate Chamber Sterilizer (Autoclave) Liquid Bath	150°C < *T* ≤ 250°C	Reference Datalogger	1,4 °C	According to Euramet cg-20, DKD-R 5-7 Guidance Documents with Portable Calibration System T: Measured Temperature • In customer place calibration is made