



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Calibration Laboratory

TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Central Address: SANAYİ MAH. HAVAALANI İÇ YOLU CAD. No:3/ PENDİK/İSTANBUL 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-0092-K

Accreditation Date : 03.02.2012

Revision Date / Number : 12.12.2025 / 15

This certificate shall remain in force until 09.02.2028, 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.

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 <p>Calibration TS EN ISO/IEC 17025 AB-0092-K</p>	TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ		
	Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025		
Calibration Laboratory			
Address : SANAYİ MAH. HAVAALANI İÇ YOLU CAD. No:3/ PENDİK/İSTANBUL İstanbul / Türkiye		Phone : +90 216 585 9800 Fax : +90 216 465 2558 Email : TTKGKEBISO17025@THY.COM Website : www.thytekNIK.com.tr	

Calibration and Measurement Capability (CMC)

Temperature

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Temperature Meters With Indicator Resistance	$-40\text{ °C} \leq T \leq 70\text{ °C}$	Climate Chamber	0,51 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Temperature Meters With Indicator Resistance	$-25\text{ °C} \leq T \leq 150\text{ °C}$	Liquid Bath	0,05 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Temperature Meters With Indicator Resistance	$-95\text{ °C} \leq T \leq 140\text{ °C}$	Block Calibrator	0,03 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Temperature Meters With Indicator Resistance	$140\text{ °C} < T \leq 650\text{ °C}$	Block Calibrator	0,1 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Temperature Meters With Indicator Thermocouple Sensor	$-95\text{ °C} \leq T \leq 140\text{ °C}$	Block Calibrator	0,1 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Temperature Meters With Indicator Thermocouple Sensor	$140\text{ °C} < T \leq 650\text{ °C}$	Block Calibrator	0,5 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Temperature Meters With Indicator Thermocouple Sensor	$-40\text{ °C} \leq T \leq 70\text{ °C}$	Climate Chamber	0,51 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Temperature Meters With Indicator Thermocouple Sensor	$-25\text{ °C} \leq T \leq 260\text{ °C}$	Liquid Bath	0,12 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Temperature Meters With Indicator Thermocouple Sensor	$650\text{ °C} < T \leq 950\text{ °C}$	Block Calibrator	0,5 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature

Accreditation Scope

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Temperature Meters With Indicator Thermocouple Sensor	$950\text{ °C} < T \leq 1100\text{ °C}$	Block Calibrator	1,3 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Standard Platinum Resistance Thermometers Platinum Resistive Thermometer (PRT)	$-25\text{ °C} \leq T \leq 260\text{ °C}$	Liquid Baths	0,05 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Standard Platinum Resistance Thermometers Platinum Resistive Thermometer (PRT)	$-95\text{ °C} \leq T \leq 140\text{ °C}$	Block Calibrator	0,03 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Standard Platinum Resistance Thermometers Platinum Resistive Thermometer (PRT)	$140\text{ °C} < T \leq 650\text{ °C}$	Block Calibrator	0,1 °C	Comparative Calibration Method (Ice Point uncertainty is included) T: Measured Temperature
Thermocouples	$-40\text{ °C} \leq T < 70\text{ °C}$	Climate Chamber	0,66 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertainty is included) T: Measured Temperature
Thermocouples	$-25\text{ °C} \leq T \leq 260\text{ °C}$	Liquid Bath	0,33 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertainty is included) T: Measured Temperature
Thermocouples	$-95\text{ °C} \leq T \leq 140\text{ °C}$	Block Calibrator	0,1 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertainty is included) T: Measured Temperature
Thermocouples	$140\text{ °C} < T \leq 950\text{ °C}$	Block Calibrator	0,5 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertainty is included) T: Measured Temperature
Thermocouples	$950\text{ °C} < T \leq 1100\text{ °C}$	Block Calibrator	1,3 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertainty is included) T: Measured Temperature
Other Measurement Services Dry-Block Calibrators	$-40\text{ °C} \leq T < 650\text{ °C}$	Stability and Temperature Distribution Measurement	1,1 °C	According to EURAMET/cg-13 T: Measured Temperature
Other Measurement Services Dry-Block Calibrators	$650\text{ °C} \leq T \leq 1100\text{ °C}$	Stability and Temperature Distribution Measurement	1,4 °C	According to EURAMET/cg-13 T: Measured Temperature

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Controlled Volumes (Temperature Distribution) Oven Cold Room (Deep Freezer etc.) Climate Chamber Temperature Bath	$-95\text{ °C} \leq T \leq 150\text{ °C}$	Temperature Distribution	1,8 °C	T: Measured Temperature Portable calibration system DKD-R 5-7, Euramet cg-20, EN 60068-3-11
Controlled Volumes (Temperature Distribution) Oven Temperature Bath/Cabinet	$150\text{ °C} < T \leq 850\text{ °C}$	Temperature Distribution	3 °C	T: Measured Temperature Portable calibration system DKD-R 5-7, Euramet cg-20, EN60068-3-11
Controlled Volumes (Temperature Distribution) Liquid Bath Temperature Bath	$-25\text{ °C} \leq T \leq 280\text{ °C}$	Temperature Distribution	0,05 °C	T: Measured Temperature Portable calibration system DKD-R 5-7, Euramet cg-20, EN60068-3-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	$-200\text{ °C} \leq T \leq 1372\text{ °C}$	K type	0,12 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	$-250\text{ °C} \leq T \leq 400\text{ °C}$	T type	0,16 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	$-210\text{ °C} \leq T \leq 1200\text{ °C}$	J type	0,13 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	$-250\text{ °C} \leq T \leq 1000\text{ °C}$	E type	0,12 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	$0\text{ °C} \leq T \leq 1767\text{ °C}$	S type	0,60 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	$0\text{ °C} \leq T \leq 1767\text{ °C}$	R type	0,61 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	$-200\text{ °C} \leq T \leq 1300\text{ °C}$	N type	0,16 °C	T: Measured Temperature EURAMET/cg-11

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Temperature Indicators and Calibrators	-200 °C ≤ T ≤ 1372 °C	K type	0,11 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction OFF				
Temperature Indicators and Calibrators	-250 °C ≤ T ≤ 400 °C	T type	0,15 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction OFF				
Temperature Indicators and Calibrators	-210 °C ≤ T ≤ 1200 °C	J type	0,10 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction OFF				
Temperature Indicators and Calibrators	-250 °C ≤ T ≤ 1000 °C	E type	0,10 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction OFF				
Temperature Indicators and Calibrators	0 °C ≤ T ≤ 1767 °C	S type	0,60 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction OFF				
Temperature Indicators and Calibrators	0 °C ≤ T ≤ 1767 °C	R type	0,61 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction OFF				
Temperature Indicators and Calibrators	-200 °C ≤ T ≤ 1300 °C	N type	0,15 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction OFF				
Temperature Indicators and Calibrators	-200 °C ≤ T ≤ 800 °C	-	0,24 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
RTD (PT 100 vb.)				
Temperature Indicators and Calibrators	-200 °C ≤ T ≤ 1372 °C	K type	0,15 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction ON Temperature Calibrator				
Temperature Indicators and Calibrators	-250 °C ≤ T ≤ 400 °C	T type	0,21 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators				
Cold Junction ON Temperature Calibrator				

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Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON Temperature Calibrator	$-210^{\circ}\text{C} \leq T \leq 1200^{\circ}\text{C}$	J type	0,19 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON Temperature Calibrator	$-250^{\circ}\text{C} \leq T \leq 1000^{\circ}\text{C}$	E type	0,14 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON Temperature Calibrator	$0^{\circ}\text{C} \leq T \leq 1767^{\circ}\text{C}$	S type	0,49 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON Temperature Calibrator	$0^{\circ}\text{C} \leq T \leq 1767^{\circ}\text{C}$	R type	0,47 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON Temperature Calibrator	$-200^{\circ}\text{C} \leq T \leq 1300^{\circ}\text{C}$	N type	0,16 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF Temperature Calibrator	$-200^{\circ}\text{C} \leq T \leq 1372^{\circ}\text{C}$	K type	0,14 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF Temperature Calibrator	$-250^{\circ}\text{C} \leq T \leq 400^{\circ}\text{C}$	T type	0,18 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF Temperature Calibrator	$-210^{\circ}\text{C} \leq T \leq 1200^{\circ}\text{C}$	J type	0,13 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF Temperature Calibrator	$-250^{\circ}\text{C} \leq T \leq 1000^{\circ}\text{C}$	E type	0,13 °C	T: Measured Temperature EURAMET/cg-11

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Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF Temperature Calibrator	$0^{\circ}\text{C} \leq T \leq 1767^{\circ}\text{C}$	S type	0,47 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF Temperature Calibrator	$0^{\circ}\text{C} \leq T \leq 1767^{\circ}\text{C}$	R type	0,47 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF Temperature Calibrator	$-200^{\circ}\text{C} \leq T \leq 1300^{\circ}\text{C}$	N type	0,16 °C	T: Measured Temperature EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Temperature Calibrator RTD (Pt100 etc.)	$-200^{\circ}\text{C} \leq T \leq 800^{\circ}\text{C}$	-	0,16 °C	T: Measured Temperature EURAMET/cg-11
Industrial Radiation Thermometers Pyrometer IR Thermometer	$-25^{\circ}\text{C} \leq T < 100^{\circ}\text{C}$	With Bath	0,6 °C	Calibration Procedure prepared according to ASTM E 2847 T: Ölçülen Sıcaklık [°C]
Industrial Radiation Thermometers Pyrometer IR Thermometer	$50^{\circ}\text{C} \leq T \leq 300^{\circ}\text{C}$	With IR Calibrator With Radiation Thermometer	1,8 °C	Calibration Procedure prepared according to ASTM E 2847 T: Ölçülen Sıcaklık [°C]
Industrial Radiation Thermometers Pyrometer IR Thermometer	$300^{\circ}\text{C} < T \leq 500^{\circ}\text{C}$	With IR Calibrator With Radiation Thermometer	2,8 °C	Calibration Procedure prepared according to ASTM E 2847 T: Ölçülen Sıcaklık [°C]
Industrial Radiation Thermometers Pyrometer IR Thermometer	$500^{\circ}\text{C} < T \leq 650^{\circ}\text{C}$	With IR Calibrator With Radiation Thermometer	3,8 °C	Calibration Procedure prepared according to ASTM E 2847 T: Ölçülen Sıcaklık [°C]
Industrial Radiation Thermometers IR Ear Thermometer	$34^{\circ}\text{C} \leq T \leq 42^{\circ}\text{C}$	With Bath	0,2 °C	Calibration Procedure prepared according to ASTM E 2847 BS EN 12470-5 T: Ölçülen Sıcaklık [°C]
Hygrometers Hygrometer Relative Humidity Meter (Capacitive, resistive, thermograph, mechanical, wet/dry chamber) Relative Humidity Meter (Datalogger) Relative Humidity Meter (Digital/Analog)	$30\% \text{rh} \leq RH \leq 80\% \text{rh}$	In Humidity and Temperature Chamber $21^{\circ}\text{C} \leq T \leq 25^{\circ}\text{C}$	1,1 % rh	Comparative Calibration Method RH: Measured Relative Humidity T: Measured Temperature

Accreditation Scope

 Calibration TS EN ISO/IEC 17025 AB-0092-K	TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025		
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Hygrometers Hygrometer Relative Humidity Meter (Capacitive, resistive, thermograph, mechanical, wet/dry chamber) Relative Humidity Meter (Datalogger) Relative Humidity Meter (Digital/Analog)	$80 \%rh < RH \leq 95 \%rh$	In Humidity and Temperature Chamber $21 ^\circ C \leq T \leq 25 ^\circ C$	1,6 %rh	Comparative Calibration Method RH: Measured Relative Humidity T: Measured Temperature
Controlled Volumes (Relative Humidity Distribution) Climate Chamber Relative Humidity Source Sterilizer (Autoclave)	$30 \%rh \leq RH \leq 95 \%rh$	Central Relative Humidity Measurement (Single Point) $21 ^\circ C \leq T \leq 25 ^\circ C$	2,0 % rh	RH: Measured Humidity T: Measured Temperature DKD-R 5-7, Euramet cg-20, EN 60068-3-6, EN 60068-3-11
Variable Temperature Blackbody Sources Blackbody IR Calibrator	$-10 ^\circ C \leq T \leq 350 ^\circ C$	Wavelength: 8 μm - 14 μm	1,6 $^\circ C$	T: Temperature Comparison Measurement <ul style="list-style-type: none"> • At customer • In the lab
Variable Temperature Blackbody Sources Blackbody IR Calibrator	$350 ^\circ C < T \leq 650 ^\circ C$	Wavelength: 8 μm - 14 μm	3,0 $^\circ C$	T: Temperature Comparison Measurement <ul style="list-style-type: none"> • At customer • In the lab
Variable Temperature Blackbody Sources Blackbody IR Calibrator	$650 ^\circ C < T \leq 1000 ^\circ C$	Wavelength: 8 μm - 14 μm	4,8 $^\circ C$	T: Temperature Comparison Measurement <ul style="list-style-type: none"> • At customer • In the lab

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



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Calibration and Measurement Capability (CMC)

Time and Frequency

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$4 \text{ ns} \leq t < 40 \text{ ns}$	input impedance 50 Ω $U \leq 1 \text{ V}$	2,0 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$40 \text{ ns} \leq t < 400 \text{ ns}$	input impedance 50 Ω $U \leq 1 \text{ V}$	2,9 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$400 \text{ ns} \leq t < 4 \mu\text{s}$	input impedance 50 Ω $U \leq 1 \text{ V}$	1,4 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$4 \mu\text{s} \leq t < 40 \mu\text{s}$	input impedance 50 Ω $U \leq 1 \text{ V}$	1,4 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$40 \mu\text{s} \leq t < 400 \mu\text{s}$	input impedance 50 Ω $U \leq 1 \text{ V}$	4,4 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$400 \mu\text{s} \leq t < 4 \text{ ms}$	input impedance 50 Ω $U \leq 1 \text{ V}$	2,3 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$4 \text{ ms} \leq t < 40 \text{ ms}$	input impedance 50 Ω $U \leq 1 \text{ V}$	4,2 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$40 \text{ ms} \leq t < 400 \text{ ms}$	input impedance 50 Ω $U \leq 1 \text{ V}$	1,1 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	$400 \text{ ms} \leq t < 1 \text{ s}$	input impedance 50 Ω $U \leq 1 \text{ V}$	1,8 ms/s	t: Applied time interval (s) U:Applied peak-to-peak voltage (V) with Fluke 9500B

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Revision Nr: 15 Date: 12.12.2025

Signal and Pulse Characteristics Band width Oscilloscope	$10 \text{ MHz} \leq \Delta f \leq 3,2 \text{ GHz}$	$U \leq 3$	$2,7 \cdot \Delta f \%$	Δf : Measured bandwidth (Hz) U : Applied peak-to-peak voltage (V) with Fluke 9500B
Frequency Frequency Meters Frequency Counter	$0,1 \text{ Hz} \leq f < 10 \text{ Hz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$1,0 \cdot 10^{-5} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$0,1 \text{ Hz} \leq f < 10 \text{ Hz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,0 \cdot 10^{-10} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$10 \text{ Hz} \leq f < 100 \text{ Hz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$1,8 \cdot 10^{-7} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$10 \text{ Hz} \leq f < 100 \text{ Hz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,0 \cdot 10^{-10} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$100 \text{ Hz} \leq f < 1 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$3,6 \cdot 10^{-8} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$100 \text{ Hz} \leq f < 1 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,0 \cdot 10^{-10} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$1 \text{ kHz} \leq f < 10 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$3,6 \cdot 10^{-9} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$1 \text{ kHz} \leq f < 10 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,4 \cdot 10^{-11} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$10 \text{ kHz} \leq f < 100 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$3,6 \cdot 10^{-10} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	$10 \text{ kHz} \leq f < 100 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,4 \cdot 10^{-11} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Frequency Frequency Meters Frequency Counter	$100 \text{ kHz} \leq f < 20 \text{ GHz}$	Gate Time:10 s $U \leq 12 \text{ V}$	$1,4 \cdot 10^{-11} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$0,1 \text{ Hz} \leq f < 10 \text{ Hz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$1,0 \cdot 10^{-5} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$0,1 \text{ Hz} \leq f < 10 \text{ Hz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,0 \cdot 10^{-10} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$10 \text{ Hz} \leq f < 100 \text{ Hz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$1,8 \cdot 10^{-7} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$10 \text{ Hz} \leq f < 100 \text{ Hz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,0 \cdot 10^{-10} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$100 \text{ Hz} \leq f < 1 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$3,6 \cdot 10^{-8} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$100 \text{ Hz} \leq f < 1 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,0 \cdot 10^{-10} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$1 \text{ kHz} \leq f < 10 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$3,6 \cdot 10^{-9} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$1 \text{ kHz} \leq f < 10 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,4 \cdot 10^{-11} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$10 \text{ kHz} \leq f < 100 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Sine Wave	$3,6 \cdot 10^{-10} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	$10 \text{ kHz} \leq f < 100 \text{ kHz}$	Gate Time:10 s $U \leq 12 \text{ V}$ Square Wave	$1,4 \cdot 10^{-11} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Frequency Frequency Sources Frequency Generator (Centrifuge-Mixer Devices)	$100 \text{ kHz} \leq f \leq 20 \text{ GHz}$	Gate Time:10 s $U \leq 12 \text{ V}$	$1,4 \cdot 10^{-11} \cdot f$	f : Measured frequency (Hz) U : Amplitude of the applied signal (V) GPS Rectified
Time Range Interval Meters Time Difference Meter (Frequency Counter, Stopwatch, Timer)	$-20 \text{ s/g} \leq t \leq +20 \text{ s/g}$	-	0,069 s/g	t : Measured Daily Deviation (s/g) Direct Reading with Reference Calibrator
Time Range Interval Meters Time Difference Meter (Frequency Counter, Stopwatch, Timer)	$1 \text{ s} \leq t \leq 3600 \text{ s}$	-	0,027 s	t : Measured Time Interval (s) Comparison Method with Reference Frequency Meter
Time Range Interval Meters Time Difference Meter (Frequency Counter, Stopwatch, Timer)	$1 \text{ s} \leq t \leq 3600 \text{ s}$	-	0,057 s	on-site calibrations with stopwatch
Frequency Frequency Meters Tachometer	$60 \text{ rpm} \leq \omega \leq 99900 \text{ rpm}$	$0,01 \text{ rpm} \leq r \leq 1 \text{ rpm}$	$5,7 \cdot 10^{-6} \cdot \omega + r \text{ rpm}$	ω : Measured RPM (rpm) r : Resolution With the help of the frequency applied to the Optical LED with the Fluke 5522A Calibrator

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 <p>Calibration TS EN ISO/IEC 17025 AB-0092-K</p>	<p>TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ</p> <p>Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025</p>
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Calibration and Measurement Capability (CMC)

Dimensional Quantities

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Dimension Standards Gauge Block (short 0.5 mm - 100 mm)	$0,5 \text{ mm} \leq L \leq 100 \text{ mm}$	Vertical Orientation	$(0,12 + 9 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618, part 3.1, ASMEB89.1.9-2002 document L : Measured value Calibration is done in the laboratory.
Dimension Standards Long Gauge Block (Length Bar) (125 mm- 1000 mm)	$100 \text{ mm} < L \leq 500 \text{ mm}$	Horizontal Orientation	$(0,23 + 9 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618, part 3.1, ASMEB89.1.9-2002 document L : Measured value Calibration is done in the laboratory.
Handheld Basic Measuring Devices Dial Indicator (Comparator)	$0 \text{ mm} \leq L \leq 100 \text{ mm}$	r: 0,001 mm	$(1,5 + 20 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 part 11.1 document r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Precision Comparator	$0 \text{ mm} \leq L \leq 3 \text{ mm}$	r: 0,001 mm	1 μm	Procedure according to VDI/VDE/DGQ 2618 part 11.2 document r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Secretion Comparator (Precision Examiner)	$0 \text{ mm} \leq L \leq 2 \text{ mm}$	r: 0,001 mm	1 μm	Procedure according to VDI/VDE/DGQ 2618 part 11.3 document r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thickness Meter (Thickness Comparator)	$0 \text{ mm} \leq L \leq 50 \text{ mm}$	r: 0,001 mm	$(1 + 10 \cdot L) \mu\text{m}$	Comparison with Gauge Blocks r: Resolution L: Measured Length [m] Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Handheld Basic Measuring Devices Thickness Meter (Thickness Comparator)	External Dimensions $0 \text{ mm} \leq L \leq 200 \text{ mm}$	$r: 0,005 \text{ mm}$	$(4 + 10 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Parts 12.1 r : Resolution L : Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thickness Meter (Thickness Comparator)	Internal Dimensions $0 \text{ mm} \leq L \leq 100 \text{ mm}$	$r: 0,005 \text{ mm}$	$(6 + 10 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Parts 13.1 r : Resolution L : Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Caliper (External diameter, Internal diameter, Depth, Step measurements)	$0 \text{ mm} \leq L \leq 500 \text{ mm}$	Internal and External Measurements, Depth and Step Measurement $r: 0,01 \text{ mm}$	$(7 + 13 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 9.1 Documents r : Resolution L : Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Caliper (External diameter, Internal diameter, Depth, Step measurements)	$500 \text{ mm} < L \leq 2000 \text{ mm}$	Internal and External Measurements, Depth and Step Measurement $r: 0,01 \text{ mm}$	$(10 + 20 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 9.1 Documents r : Resolution L : Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Depth Caliper	$0 \text{ mm} \leq L \leq 500 \text{ mm}$	$r: 0,01 \text{ mm}$	$(13 + 5 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 9.2 Documents r : Resolution L : Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Depth Caliper	$500 \text{ mm} < L \leq 1000 \text{ mm}$	$r: 0,01 \text{ mm}$	$(11 + 9 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 9.2 Documents r : Resolution L : Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Height Measuring Device (Height Gauge)	$0 \text{ mm} \leq L \leq 1000 \text{ mm}$	$r: 0,001 \text{ mm}$	$(3,1 + 20 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 9.3 and 16.1 Documents r : Resolution L : Measured Length [m] Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Handheld Basic Measuring Devices Outer Diameter Micrometry	$0 \text{ mm} \leq L \leq 500 \text{ mm}$	r: 0,001 mm	$(1,5 + 12 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 10.1 Documents r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Outer Diameter Micrometry	$500 \text{ mm} \leq L \leq 1500 \text{ mm}$	r: 0,01 mm	$(3,5 + 12 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 10.1 Documents r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Passometer Scale	$0 \text{ mm} \leq L \leq 500 \text{ mm}$	r: 0,001 mm	1 μm	Procedure according to VDI/VDE/DGQ 2618 Part 10.3 Documents r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Passometer Scale	$500 \text{ mm} \leq L \leq 1500 \text{ mm}$	r: 0,002 mm	1,5 μm	Procedure according to VDI/VDE/DGQ 2618 Part 10.3 Documents r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Depth Micrometry	$0 \text{ mm} \leq L \leq 300 \text{ mm}$	r: 0,001 mm	$(1,5 + 8 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 10.5 Documents r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Two-Point Inner Diameter Micrometry	$25 \text{ mm} \leq L \leq 590 \text{ mm}$	r: 0,001 mm	$(1,2 + 3 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 10.7 Documents r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Three-Point Inner Diameter Micrometry	$2,5 \text{ mm} \leq L \leq 205 \text{ mm}$	r: 0,001 mm	$(2,3 + 2,1 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 10.8 Documents r: Resolution L: Measured Length [m] Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Dimension Standards Micrometer Setting Bar [Flat, Screw]	$25 \text{ mm} \leq L \leq 590 \text{ mm}$	-	$(0,8 + 3,3 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 4.4 Documents r: Resolution L: Measured Length [m] Calibration is done in the laboratory.
Diameter Standards Exterior Cylinder (Bumper Mastar (Ref, Pass- not pass, etc.) Piston, Pin (Screw Measuring Pins) Wire, Setting Gauge)	$0,2 \text{ mm} \leq D \leq 100 \text{ mm}$	-	$(1,1 + 15 \cdot D) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 4.1 Documents D: Diameter [m] Calibration is done in the laboratory.
Diameter Standards Internal Cylinder (Ring Mastar (Ref, Passes-not pass etc.))	$1 \text{ mm} \leq D \leq 305 \text{ mm}$	-	$(1,1 + 20 \cdot D) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 4.1 Documents D: Diameter [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Snap Gauge (Inner , Outer)	$5 \text{ mm} \leq L \leq 150 \text{ mm}$	-	$(1 + 5 \cdot L) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 4.7 Documents L: Measured Length [m] Calibration is done in the laboratory.
Diameter Standards Gauge Pin and Screw Thread	$0,1 \text{ mm} \leq D \leq 20 \text{ mm}$	Steel	$(0,8 + 2 \cdot D) \mu\text{m}$	Procedure according to VDI/VDE/DGQ 2618 Part 4.2 Documents D: Diameter [m] Calibration is done in the laboratory.
Screw Standards Flat Screw Plug Gauge	Outer Screw Thread $1 \text{ mm} \leq D \leq 100 \text{ mm}$	Step: 0,35 - 6 mm	4,50 μm	Procedure according to VDI/VDE/DGQ 2618 Part 4.8, ISO 228, BS 919, ISO 1502, ANSI/ASME B1.1, B1.2 Documents Go - NoGo Control D: Measured Part Diameter [m] Calibration is done in the laboratory.
Screw Standards Flat Screw Ring Gauge	Inner Screw Thread $5 \text{ mm} \leq D \leq 100 \text{ mm}$	Step: 0,35 - 6 mm	3,65 μm	Procedure according to VDI/VDE/DGQ 2618 Part 4.8, ISO 228, BS 919, ISO 1502, ANSI/ASME B1.1, B1.2 Documents Go - NoGo Control D: Measured Part Diameter [m] Calibration is done in the laboratory.
Angle Measuring Devices (Bevel) Protractor	$\alpha \leq 360^\circ$	Measurement Arm Until 300 mm	1'	Procedure according to VDI/VDE/DGQ 2618 Part 7.2 Documents α : Açık L: Measured Length [m] Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Handheld Basic Measuring Devices Radius Gauges	$1 \text{ mm} \leq r \leq 25 \text{ mm}$	0.01 mm	14,5 μm	Optical Measurement Method r: Radius Calibration is done in the laboratory.
Dimension Standards Thickness gauge (Synthyl etc.(Feeler Gauge))	$0,03 \text{ mm} \leq L \leq 2 \text{ mm}$	-	0,5 μm	Procedure according to DIN 2275 Documents L: Thickness Calibration is done in the laboratory.
Handheld Basic Measuring Devices Steel Ruler	$0 \text{ mm} \leq L \leq 200 \text{ mm}$	-	$(14 + 5 \cdot L) \mu\text{m}$	Optical Measurement Method Procedure according to DIN 865, DIN 866 Documents L: Length Calibration is done in the laboratory.
Handheld Basic Measuring Devices Steel Ruler	$0 \text{ mm} \leq L \leq 3000 \text{ mm}$	-	$(93 + 18 \cdot L) \mu\text{m}$	Optical Measurement Method Procedure according to DIN 865, DIN 866 Documents L: Length Calibration is done in the laboratory.
Dimension Standards Type Meter	$0 \text{ mm} \leq L \leq 50 \text{ m}$	-	$(82 + 18 \cdot L) \mu\text{m}$	Procedure according to TS 9505 Documents L: Length Calibration is done in the laboratory.
Reference Materials [Sieve, Mesh] Aperture (Aperture)	$20 \mu\text{m} \leq L \leq 125 \text{ mm}$	Mesh Range	13 μm	Procedure according to ISO 3310 Documents L: Measured Mesh Gap Value Calibration is done in the laboratory.
Coating Thickness Coating Thickness Standard (Thickness Foils)	$7 \mu\text{m} \leq L \leq 8000 \mu\text{m}$	-	0,7 μm	DIN EN ISO 2178 L: Thickness Calibration is done in the laboratory.
Handheld Basic Measuring Devices Ultrasonic Thickness Meter	$0 \text{ mm} \leq L \leq 100 \text{ mm}$	r: 0,001 mm	5 μm	Gauge Measurement Method r: Resolution Calibration is done in the laboratory.
2 - Dimension 3 - Dimension Measuring Devices Profile Projection	$0 \text{ mm} \leq L \leq 200 \text{ mm}$	r: 0,001 mm	$(7,2 + 7 \cdot L) \mu\text{m}$	VDI/VDE/DGQ 2617 Length Scale Control L: Measured Length r: Resolution Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Coating Thickness Coating Thickness Measuring Device	$0 \text{ mm} \leq L \leq 2 \text{ mm}$	r: 0,001 mm	2,5 μm	DIN EN ISO 2178 L: Measured Thickness r: Resolution Calibration is done in the laboratory.
Angle Measuring Devices Steel Squares	$0 \text{ mm} \leq L < 200 \text{ mm}$	Steepness / Flatness	$(13 + 5 \cdot L) \mu\text{m}$	Optical Measurement Method Procedure according to VDI/VDE/DGQ 2618 Part 7.1 Documents L: Length Calibration is done in the laboratory.
Angle Measuring Devices Steel Squares	$0 \text{ mm} \leq L \leq 500 \text{ mm}$	Steepness	$(23 + 4 \cdot L) \mu\text{m}$	Optical Measurement Method Procedure according to VDI/VDE/DGQ 2618 Part 7.1 Documents L: Length Calibration is done in the laboratory.
Angle Measuring Devices Steel Squares	$0 \text{ mm} \leq L \leq 500 \text{ mm}$	Flatness	$(12 + 10 \cdot L) \mu\text{m}$	Optical Measurement Method Procedure according to VDI/VDE/DGQ 2618 Part 7.1 Documents L: Length Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thread Gauge	$0,1 \text{ mm} \leq L \leq 7 \text{ mm}$	Pitch	14,1 μm	Optical Measurement Method L: Measured Step Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thread Gauge	$0,1 \text{ mm} \leq L \leq 7 \text{ mm}$	Angle (Angle Scale)	5,4'	Optical Measurement Method L: Measured Step Length [m] Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thread Gauge	$L \leq 7 \text{ mm}$	Angle (Point Measurement)	14'	Optical Measurement Method L: Measured Step Length [m] Calibration is done in the laboratory.
Length Measuring Devices Crimping Tool	Head size: $0,1 \text{ mm} \leq L \leq 26 \text{ mm}$	Measurement with micrometer	4 μm	Calibration procedure prepared in accordance with manufacturer standards, using the MIL-DTL-22520G Document.
Length Measuring Devices Crimping Tool	Head size: $0,1 \text{ mm} \leq L \leq 26 \text{ mm}$	Measurement with Go-No Go Gauge	10 μm	Calibration procedure prepared in accordance with manufacturer standards, using the MIL-DTL-22520G Document.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Length Measuring Devices Crimping Tool	Head size: $0,1 \text{ mm} \leq L \leq 26 \text{ mm}$	Measurement with Profile Projection	14 μm	Calibration procedure prepared in accordance with manufacturer standards, using the MIL-DTL-22520G Document.
2 - Dimension 3-Dimension Measuring Devices Three-Dimensional Measurement Device (CMM)	$0 \text{ mm} \leq L \leq 1000 \text{ mm}$	Length Measurements	$(2 + 6,3 \cdot L) \mu\text{m}$	According to calibration procedure prepared in accordance with the document TS EN ISO 10360-2 L: Measured Length • In customer place calibration is made.
Diameter Standards Globe (Ball, Screw Measurement Probes (T-Probe))	$10 \text{ mm} \leq D \leq 100 \text{ mm}$	With Three-Dimensional Measurement Device (CMM)	3,2 μm	Comparison measurement • In the laboratory
Diameter Standards Globe (Ball, Screw Measurement Probes (T-Probe))	$0,2 \text{ mm} \leq D \leq 100 \text{ mm}$	With One-Dimensional Measurement Device	1,0 μm	Comparison measurement • In the laboratory
Angle Measuring Devices Angle Gauges	$\alpha \leq 360^\circ$	With Profile Projection	10'	Optical Measurement Method • In the laboratory
Length Measuring Devices 1-Dimension Measuring Device (Universal etc.)	$0 \text{ mm} \leq L \leq 100 \text{ mm}$	Gauge Blocks	$(0,2 + 2,2 \cdot L) \mu\text{m}$	L: measured value VDI/VDE/DGQ 2618 Part 17 • In customer place • In the laboratory
Diameter Standards Globe (Ball, Screw Measurement Probes (T-Probe))	$0,1 \text{ mm} \leq D \leq 1 \text{ mm}$	With Profile Projection	15 μm	Optical Measurement Method • In the laboratory

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Calibration and Measurement Capability (CMC)

Fluid Quantities

Measured Quantity/Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Volumetric Gas Flow Gas Counter Flowmeter Rotameter	0,2 l/min ≤ Q < 25 l/min	Atmospheric Pressure (0 - 6) barg air	% 0,58	Q: Volumetric flow rate (l/min) Comparison method with reference flowmeter • In the laboratory calibration is made.
Volumetric Gas Flow Gas Counter Flowmeter Rotameter	25 m/s ≤ Q < 100 m/s	Atmospheric Pressure (0 - 6) barg air	% 0,79	Q: Volumetric flow rate (l/min) Comparison method with reference flowmeter • In the laboratory calibration is made.
Volumetric Gas Flow Gas Counter Flowmeter Rotameter	100 m/s ≤ Q < 200 m/s	Atmospheric Pressure (0 - 6) barg air	% 0,47	Q: Volumetric flow rate (l/min) Comparison method with reference flowmeter • In the laboratory calibration is made.
Volumetric Gas Flow Gas Counter Flowmeter Rotameter	200 m/s ≤ Q < 500 m/s	Atmospheric Pressure (0 - 6) barg air	% 0,44	Q: Volumetric flow rate (l/min) Comparison method with reference flowmeter • In the laboratory calibration is made.

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Calibration and Measurement Capability (CMC)

Electricity-High Frequency Quantities (HF)

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Radio Frequency (RF) Power Absolute RF Power RF Power Source Reference Power Output of RF Power Meters Signal Source	$0,001 \text{ mW} \leq P \leq 100 \text{ mW}$ $(-30 \text{ dBm} \leq P \leq +20 \text{ dBm})$	$100 \text{ kHz} \leq f < 4,2 \text{ GHz}$	$\% 7,8 \cdot P$ veya $0,32 \text{ dB}$	<i>P</i> : Power Using 8482A Power Sensor and 4418A Power Meter In the laboratory • calibration is done.

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Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

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 Pressure Transducer	$3 \text{ kPa} \leq p \leq 3,5 \text{ MPa}$	Pneumatic (with DWT)	$1,6 \cdot 10^{-4} \cdot p + 72 \text{ Pa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p : Measured value (Pa)
Relative Pressure Analog Manometer Digital Manometer Pressure Transducer	$0,1 \text{ MPa} \leq p \leq 3,5 \text{ MPa}$	Hydraulic (with DWT)	$1,7 \cdot 10^{-4} \cdot p + 60 \text{ Pa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p : Measured value (Pa)
Relative Pressure Analog Manometer Digital Manometer Pressure Transducer	$3,5 \text{ MPa} \leq p \leq 70 \text{ MPa}$	Hydraulic (with DWT)	$1,8 \cdot 10^{-4} \cdot p + 0,47 \text{ kPa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p : Measured value (Pa)
Relative Pressure Analog Manometer Digital Manometer Pressure Transducer	$-90 \text{ kPa} \leq p \leq -10 \text{ kPa}$	Pneumatic (with DWT)	$6 \text{ Pa} + 1,4 \cdot 10^{-4} \cdot p$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p : Measured value (Pa)
Absolute Pressure Analog Manometer Digital Manometer Pressure Transducer	$10 \text{ kPa} \leq p \leq 350 \text{ kPa}$	Pneumatic (with RPM4)	$4,3 \cdot 10^{-5} \cdot p + 0,13 \text{ kPa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document • p : Measured value (Pa)
Absolute Pressure Air Data Test Set (ADTS)	$2,5 \text{ kPa} \leq p \leq 350 \text{ kPa}$	Pneumatic (with RPM4)	$7 \cdot 10^{-5} \cdot p + 20 \text{ Pa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document • p : Measured value (Pa)
Absolute Pressure Analog Manometer Digital Manometer Pressure Transducer	$350 \text{ kPa} \leq p \leq 3,5 \text{ MPa}$	Pneumatic	$3,6 \cdot 10^{-4} \cdot p + 0,2 \text{ kPa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document • p : Measured value (Pa)
Absolute Pressure Analog Manometer Digital Manometer Pressure Transducer	$3,5 \text{ MPa} \leq p \leq 70 \text{ MPa}$	Hydraulic	$3,7 \cdot 10^{-4} \cdot p + 0,1 \text{ kPa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p : Measured value (Pa)

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Absolute Pressure Analog Barometer Digital Barometer	$750 \text{ hPa} \leq p \leq 1100 \text{ hPa}$	Barometric Cabin (with RPM4)	1,6 hPa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document • p : Measured value (Pa)
Relative Pressure Difference Pressure Meter	$50 \text{ Pa} \leq p \leq 5000 \text{ Pa}$	with Difference Pressure Calibrator	$9,08 \cdot 10^{-4} \cdot p + 0,58 \text{ Pa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p : Measured value (Pa)
Relative Pressure Difference Pressure Meter	$3 \text{ kPa} \leq p \leq 70 \text{ MPa}$	with DWT	$1,8 \cdot 10^{-4} \cdot p + 0,47 \text{ kPa}$	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p : Measured value (Pa)

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TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Calibration and Measurement Capability (CMC)

Force

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Force Measurement Devices Load Cell Force Converter Dynamometer Crane Scale	$0,45 \text{ kN} \leq F \leq 200 \text{ kN}$	Tension and Compression with 00 Class Loadcell	0,08 %	F: Applied force (N) Procedure according to DAkKS-DKD-R 3-3, EN ISO 376 and ASTM E74. A hydraulic force standard machine with a reference force transducer is used. • Calibration is done in the laboratory.
Force Measurement Devices Load Cell Force Converter Dynamometer Crane Scale	$40 \text{ kN} \leq F \leq 100 \text{ kN}$	Tension and Compression with 00 Class Loadcell	0,05 %	F: Applied force (N) Procedure according to DAkKS-DKD-R 3-3, EN ISO 376 and ASTM E74. A hydraulic force standard machine with a reference force transducer is used. • Calibration is done in the laboratory.
Force Measurement Devices Load Cell Force Converter Dynamometer Crane Scale	$40 \text{ kN} \leq F \leq 200 \text{ kN}$	Tension and Compression with 00 Class Loadcell	0,3 %	F: Applied force (N) Procedure according to DAkKS-DKD-R 3-3, EN ISO 376 and ASTM E74. A hydraulic force standard machine with a reference force transducer is used. • Calibration is done in the laboratory.
Force Measurement Devices Hand Scale	$0,5 \text{ N} \leq F \leq 500 \text{ N}$	Tensile/Compression with Dead Weight	0,1 %	F: Applied force (N) Calibration procedure prepared in accordance with DKD-R 3-3 Guidance Document • Calibration is done in the laboratory.
Force Measurement Devices Load Cell Force Converter Dynamometer Crane Scale	$0,45 \text{ kN} \leq F \leq 4,5 \text{ kN}$	Tension and Compression with 00 Class Loadcell	0,12 %	F: Applied force (N) Procedure according to DAkKS-DKD-R 3-3, EN ISO 376 and ASTM E74 A hydraulic force standard machine with a reference force transducer is used. • Calibration is done in the laboratory.

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Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Calibration and Measurement Capability (CMC)

Electricity - DC and Low Frequency Quantities (LF)

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	$0 \text{ mV} \leq U < 200 \text{ mV}$	-	$9,0 \cdot 10^{-6} \cdot U + 0,5 \mu\text{V}$	<i>U</i> : Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	$200 \text{ mV} \leq U < 2 \text{ V}$	-	$6,0 \cdot 10^{-6} \cdot U + 1,0 \mu\text{V}$	<i>U</i> : Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	$2 \text{ V} \leq U \leq 11 \text{ V}$	-	$4,0 \cdot 10^{-6} \cdot U + 5,0 \mu\text{V}$	<i>U</i> : Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	$11 \text{ V} < U \leq 20 \text{ V}$	-	$4,0 \cdot 10^{-6} \cdot U + 0,6 \mu\text{V}$	<i>U</i> : Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	$20 \text{ V} < U \leq 200 \text{ V}$	-	$7,0 \cdot 10^{-6} \cdot U + 40 \mu\text{V}$	<i>U</i> : Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	$200 \text{ V} < U \leq 1000 \text{ V}$	-	$9,0 \cdot 10^{-6} \cdot U + 0,6 \text{ mV}$	U : Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	$0 \text{ mV} \leq U < 199,99 \text{ mV}$	-	$6,9 \cdot 10^{-6} \cdot U + 0,10 \mu\text{V}$	U : Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	$199,99 \text{ mV} \leq U \leq 1,9999 \text{ V}$	-	$3,7 \cdot 10^{-6} \cdot U + 0,39 \mu\text{V}$	U : Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	$1,9999 \text{ V} < U \leq 19,999 \text{ V}$	-	$4,0 \cdot 10^{-6} \cdot U + 0,35 \mu\text{V}$	U : Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	$19,999 \text{ V} < U \leq 199,99 \text{ V}$	-	$6,2 \cdot 10^{-6} \cdot U + 45 \mu\text{V}$	U : Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	$199,99 \text{ V} < U \leq 1000 \text{ V}$	-	$6,5 \cdot 10^{-6} \cdot U + 0,1 \text{ mV}$	U : Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Current DC Current Meters Multimeter: DC Current Ammeter	$20 \mu\text{A} \leq I \leq 220 \mu\text{A}$	-	$51 \cdot 10^{-6} \cdot I + 7,0 \text{ nA}$	<i>I</i> : Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Ammeter	$220 \mu\text{A} < I \leq 2,2 \text{ mA}$	-	$42 \cdot 10^{-6} \cdot I + 8 \text{ nA}$	<i>I</i> : Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Ammeter	$2,2 \text{ mA} < I \leq 22 \text{ mA}$	-	$44 \cdot 10^{-6} \cdot I + 4 \text{ nA}$	<i>I</i> : Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Ammeter	$22 \text{ mA} < I \leq 220 \text{ mA}$	-	$55 \cdot 10^{-6} \cdot I + 0,11 \mu\text{A}$	<i>I</i> : Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Ammeter	$220 \text{ mA} < I \leq 2,2 \text{ A}$	-	$98 \cdot 10^{-6} \cdot I + 0,27 \mu\text{A}$	<i>I</i> : Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Ammeter	$1,1 \text{ A} < I \leq 11 \text{ A}$	-	$0,76 \cdot 10^{-3} \cdot I + 3,4 \text{ mA}$	<i>I</i> : Measured current, A Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory calibration is made.



Calibration
TS EN ISO/IEC 17025
AB-0092-K

TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Current DC Current Meters Multimeter: DC Current Ammeter	$11 A < I \leq 20 A$	-	$1,0 \cdot 10^{-3} \cdot I + 0,75 \text{ mA}$	<i>I</i> : Measured current, A Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Pensamperimeter Clampmeter (toroidal type)	$10 A \leq I \leq 15 A$	-	% 0,25	<i>I</i> : Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Pensamperimeter Clampmeter (toroidal type)	$15 A < I < 150 A$	-	% 0,27	<i>I</i> : Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Pensamperimeter Clampmeter (toroidal type)	$150 A \leq I < 500 A$	-	% 0,23	<i>I</i> : Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Pensamperimeter Clampmeter (toroidal type)	$500 A \leq I \leq 1000 A$	-	% 0,24	<i>I</i> : Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Pensamperimeter Clampmeter (non-toroidal type)	$10 A \leq I \leq 15 A$	-	% 0,56	<i>I</i> : Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Current DC Current Meters Multimeter: DC Current Pensampermeter Clampmeter (non-toroidal type)	$15 A < I < 150 A$	-	% 1,1	I : Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Pensampermeter Clampmeter (non-toroidal type)	$150 A \leq I < 500 A$	-	% 0,65	I : Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Meters Multimeter: DC Current Pensampermeter Clampmeter (non-toroidal type)	$500 A \leq I \leq 1000 A$	-	% 0,48	I : Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	$20 \mu A \leq I \leq 200 \mu A$	-	$16 \cdot 10^{-6} \cdot I + 0,4 \text{ nA}$	I : Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	$200 \mu A < I \leq 2 \text{ mA}$	-	$18 \cdot 10^{-6} \cdot I + 0,12 \text{ nA}$	I : Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	$2 \text{ mA} < I \leq 20 \text{ mA}$	-	$17 \cdot 10^{-6} \cdot I + 1,7 \text{ nA}$	I : Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Current DC Current Sources DC Current Source Calibrator: DC Current	$20 \text{ mA} < I \leq 200 \text{ mA}$	-	$52 \cdot 10^{-6} \cdot I + 0,21 \mu\text{A}$	I : Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	$200 \text{ mA} < I \leq 2 \text{ A}$	-	$0,24 \cdot 10^{-3} \cdot I + 4 \mu\text{A}$	I : Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	$2 \text{ A} < I \leq 20 \text{ A}$	-	$4,4 \cdot 10^{-4} \cdot I + 0,5 \text{ mA}$	I : Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	$20 \text{ A} \leq I \leq 30 \text{ A}$	-	3,6 mA/A	I : Measured current, A Direct Comparison Method with Fluke 5320A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
DC Current DC High Current Sources	$10 \text{ A} \leq I \leq 100 \text{ A}$	-	$1 \cdot 10^{-3} \cdot I + 10 \text{ mA}$	I : Measured current, A Using Fluke 8508A and Shunt Resistor <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ mV} \leq U \leq 22 \text{ mV}$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	$0,26 \cdot 10^{-3} \cdot U + 4,0 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ mV} \leq U \leq 22 \text{ mV}$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	$0,11 \cdot 10^{-3} \cdot U + 4,0 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ mV} \leq U \leq 22 \text{ mV}$	$40 \text{ Hz} < f \leq 20 \text{ kHz}$	$0,10 \cdot 10^{-3} \cdot U + 4,0 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ mV} \leq U \leq 22 \text{ mV}$	$20 \text{ kHz} < f \leq 100 \text{ kHz}$	$0,51 \cdot 10^{-3} \cdot U + 5,0 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 \text{ mV} < U \leq 220 \text{ mV}$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	$0,29 \cdot 10^{-3} \cdot U + 12 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 \text{ mV} < U \leq 220 \text{ mV}$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	$0,11 \cdot 10^{-3} \cdot U + 6,8 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 \text{ mV} < U \leq 220 \text{ mV}$	$40 \text{ Hz} < f \leq 20 \text{ kHz}$	$0,10 \cdot 10^{-3} \cdot U + 6,9 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 \text{ mV} < U \leq 220 \text{ mV}$	$20 \text{ kHz} < f \leq 50 \text{ kHz}$	$0,21 \cdot 10^{-3} \cdot U + 7,0 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 \text{ mV} < U \leq 220 \text{ mV}$	$50 \text{ kHz} < f \leq 100 \text{ kHz}$	$0,47 \cdot 10^{-3} \cdot U + 17 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 \text{ mV} < U \leq 220 \text{ mV}$	$100 \text{ kHz} < f \leq 300 \text{ kHz}$	$0,92 \cdot 10^{-3} \cdot U + 20 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 \text{ mV} < U \leq 220 \text{ mV}$	$300 \text{ kHz} < f \leq 500 \text{ kHz}$	$1,5 \cdot 10^{-3} \cdot U + 25 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 \text{ mV} < U \leq 220 \text{ mV}$	$500 \text{ kHz} < f \leq 1 \text{ MHz}$	$2,8 \cdot 10^{-3} \cdot U + 45 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 \text{ mV} < U \leq 2,2 \text{ V}$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	$0,25 \cdot 10^{-3} \cdot U + 40 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 \text{ mV} < U \leq 2,2 \text{ V}$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	$0,1 \cdot 10^{-3} \cdot U + 15 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 \text{ mV} < U \leq 2,2 \text{ V}$	$40 \text{ Hz} < f \leq 20 \text{ kHz}$	$50 \cdot 10^{-6} \cdot U + 8 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 \text{ mV} < U \leq 2,2 \text{ V}$	$20 \text{ kHz} < f \leq 50 \text{ kHz}$	$78 \cdot 10^{-6} \cdot U + 10 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 \text{ mV} < U \leq 2,2 \text{ V}$	$50 \text{ kHz} < f \leq 100 \text{ kHz}$	$0,12 \cdot 10^{-3} \cdot U + 30 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 \text{ mV} < U \leq 2,2 \text{ V}$	$100 \text{ kHz} < f \leq 300 \text{ kHz}$	$0,39 \cdot 10^{-3} \cdot U + 80 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 \text{ mV} < U \leq 2,2 \text{ V}$	$300 \text{ kHz} < f \leq 500 \text{ kHz}$	$0,96 \cdot 10^{-3} \cdot U + 0,2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 \text{ mV} < U \leq 2,2 \text{ V}$	$500 \text{ kHz} < f \leq 1 \text{ MHz}$	$1,7 \cdot 10^{-3} \cdot U + 0,3 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ V} < U \leq 22 \text{ V}$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	$0,25 \cdot 10^{-3} \cdot U + 0,4 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ V} < U \leq 22 \text{ V}$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	$0,1 \cdot 10^{-3} \cdot U + 0,15 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ V} < U \leq 22 \text{ V}$	$40 \text{ Hz} < f \leq 20 \text{ kHz}$	$52 \cdot 10^{-6} \cdot U + 47 \text{ } \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ V} < U \leq 22 \text{ V}$	$20 \text{ kHz} < f \leq 50 \text{ kHz}$	$80 \cdot 10^{-6} \cdot U + 98 \text{ } \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 \text{ V} < U \leq 22 \text{ V}$	$50 \text{ kHz} < f \leq 100 \text{ kHz}$	$0,11 \cdot 10^{-3} \cdot U + 0,2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 V < U \leq 22 V$	$100 \text{ kHz} < f \leq 300 \text{ kHz}$	$0,29 \cdot 10^{-3} \cdot U + 0,59 \text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 V < U \leq 22 V$	$300 \text{ kHz} < f \leq 500 \text{ kHz}$	$1,1 \cdot 10^{-3} \cdot U + 2 \text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$2,2 V < U \leq 22 V$	$500 \text{ kHz} < f \leq 1 \text{ MHz}$	$1,6 \cdot 10^{-3} \cdot U + 3,2 \text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 V < U \leq 220 V$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	$0,25 \cdot 10^{-3} \cdot U + 4 \text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 V < U \leq 220 V$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	$0,1 \cdot 10^{-3} \cdot U + 2 \text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 V < U \leq 220 V$	$40 \text{ Hz} < f \leq 20 \text{ kHz}$	$58 \cdot 10^{-6} \cdot U + 0,57 \text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 V < U \leq 220 V$	$20 \text{ kHz} < f \leq 50 \text{ kHz}$	$87 \cdot 10^{-6} \cdot U + 1 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$22 V < U \leq 220 V$	$50 \text{ kHz} < f \leq 100 \text{ kHz}$	$0,16 \cdot 10^{-3} \cdot U + 2,5 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 V < U \leq 1000 V$	$40 \text{ Hz} \leq f < 1 \text{ kHz}$	$0,11 \cdot 10^{-3} \cdot U + 3,5 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A-5725A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 V < U \leq 1000 V$	$1 \text{ kHz} < f < 20 \text{ kHz}$	$0,18 \cdot 10^{-3} \cdot U + 5,7 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A-5725A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	$220 V < U \leq 1000 V$	$20 \text{ kHz} < f \leq 30 \text{ kHz}$	$0,67 \cdot 10^{-3} \cdot U + 11 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A-5725A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ mV} \leq U \leq 200 \text{ mV}$	$10 \text{ Hz} \leq f \leq 40 \text{ Hz}$	$0,12 \cdot 10^{-3} \cdot U + 4 \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K

Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ mV} \leq U \leq 200 \text{ mV}$	$40 \text{ Hz} < f \leq 100 \text{ Hz}$	$0,12 \cdot 10^{-3} \cdot U + 4 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ mV} \leq U \leq 200 \text{ mV}$	$100 \text{ Hz} < f \leq 2 \text{ kHz}$	$0,12 \cdot 10^{-3} \cdot U + 2 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ mV} \leq U \leq 200 \text{ mV}$	$2 \text{ kHz} < f \leq 10 \text{ kHz}$	$0,12 \cdot 10^{-3} \cdot U + 4 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ mV} \leq U \leq 200 \text{ mV}$	$10 \text{ kHz} < f \leq 30 \text{ kHz}$	$0,31 \cdot 10^{-3} \cdot U + 8 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ mV} \leq U \leq 200 \text{ mV}$	$30 \text{ kHz} < f \leq 100 \text{ kHz}$	$0,70 \cdot 10^{-3} \cdot U + 20 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200 \text{ mV} < U \leq 2 \text{ V}$	$10 \text{ Hz} \leq f \leq 40 \text{ Hz}$	$0,11 \cdot 10^{-3} \cdot U + 20 \mu\text{V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200 \text{ mV} < U \leq 2 \text{ V}$	$40 \text{ Hz} < f \leq 100 \text{ Hz}$	$86 \cdot 10^{-6} \cdot U + 20 \text{ } \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200 \text{ mV} < U \leq 2 \text{ V}$	$100 \text{ Hz} < f \leq 2 \text{ kHz}$	$67 \cdot 10^{-6} \cdot U + 20 \text{ } \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200 \text{ mV} < U \leq 2 \text{ V}$	$2 \text{ kHz} < f \leq 10 \text{ kHz}$	$86 \cdot 10^{-6} \cdot U + 20 \text{ } \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200 \text{ mV} < U \leq 2 \text{ V}$	$10 \text{ kHz} < f \leq 30 \text{ kHz}$	$0,21 \cdot 10^{-3} \cdot U + 40 \text{ } \mu\text{V}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200 \text{ mV} < U \leq 2 \text{ V}$	$30 \text{ kHz} < f \leq 100 \text{ kHz}$	$0,51 \cdot 10^{-3} \cdot U + 0,20 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200 \text{ mV} < U \leq 2 \text{ V}$	$100 \text{ kHz} < f \leq 300 \text{ kHz}$	$3,0 \cdot 10^{-3} \cdot U + 2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200 \text{ mV} < U \leq 2 \text{ V}$	$300 \text{ kHz} < f \leq 1 \text{ MHz}$	$10 \cdot 10^{-3} \cdot U + 20 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ V} < U \leq 20 \text{ V}$	$10 \text{ Hz} \leq f \leq 40 \text{ Hz}$	$0,11 \cdot 10^{-3} \cdot U + 0,2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ V} < U \leq 20 \text{ V}$	$40 \text{ Hz} < f \leq 100 \text{ Hz}$	$86 \cdot 10^{-6} \cdot U + 0,2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ V} < U \leq 20 \text{ V}$	$100 \text{ Hz} < f \leq 2 \text{ kHz}$	$67 \cdot 10^{-6} \cdot U + 0,2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ V} < U \leq 20 \text{ V}$	$2 \text{ kHz} < f \leq 10 \text{ kHz}$	$86 \cdot 10^{-6} \cdot U + 0,2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 \text{ V} < U \leq 20 \text{ V}$	$10 \text{ kHz} < f \leq 30 \text{ kHz}$	$0,2 \cdot 10^{-3} \cdot U + 0,4 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 V < U \leq 20 V$	$30 \text{ kHz} < f \leq 100 \text{ kHz}$	$0,5 \cdot 10^{-3} \cdot U + 2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 V < U \leq 20 V$	$100 \text{ kHz} < f \leq 300 \text{ kHz}$	$3,0 \cdot 10^{-3} \cdot U + 20 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$2 V < U \leq 20 V$	$300 \text{ kHz} < f \leq 1 \text{ MHz}$	$10 \cdot 10^{-3} \cdot U + 0,2 V$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$20 V < U \leq 200 V$	$10 \text{ Hz} \leq f \leq 40 \text{ Hz}$	$0,11 \cdot 10^{-3} \cdot U + 2 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$20 V < U \leq 200 V$	$40 \text{ Hz} < f \leq 100 \text{ Hz}$	$92 \cdot 10^{-6} \cdot U + 1,9 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$20 V < U \leq 200 V$	$100 \text{ Hz} < f \leq 2 \text{ kHz}$	$75 \cdot 10^{-6} \cdot U + 1,9 \text{ mV}$	<p>U: Measured voltage, V f: Frequency, Hz</p> <p>Direct Comparison Method to Fluke 8508A Reference Multimeter</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$20\text{ V} < U \leq 200\text{ V}$	$2\text{ kHz} < f \leq 10\text{ kHz}$	$92 \cdot 10^{-6} \cdot U + 1,9\text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$20\text{ V} < U \leq 200\text{ V}$	$10\text{ kHz} < f \leq 30\text{ kHz}$	$0,20 \cdot 10^{-3} \cdot U + 4\text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$20\text{ V} < U \leq 200\text{ V}$	$30\text{ kHz} < f \leq 100\text{ kHz}$	$0,50 \cdot 10^{-3} \cdot U + 20\text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200\text{ V} < U \leq 1000\text{ V}$	$40\text{ Hz} < f \leq 10\text{ kHz}$	$97 \cdot 10^{-6} \cdot U + 19\text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200\text{ V} < U \leq 1000\text{ V}$	$10\text{ kHz} < f \leq 30\text{ kHz}$	$0,21 \cdot 10^{-3} \cdot U + 40\text{ mV}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	$200\text{ V} < U \leq 1000\text{ V}$	$30\text{ kHz} < f \leq 100\text{ kHz}$	$0,51 \cdot 10^{-3} \cdot U + 0,20\text{ V}$	U : Measured voltage, V f : Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter <ul style="list-style-type: none"> In customer place In the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$100 \mu\text{A} \leq I \leq 220 \mu\text{A}$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	0,82 mA/A	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$100 \mu\text{A} \leq I \leq 220 \mu\text{A}$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	0,72 mA/A	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$100 \mu\text{A} \leq I \leq 220 \mu\text{A}$	$40 \text{ Hz} < f \leq 1 \text{ kHz}$	0,31 mA/A	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$100 \mu\text{A} \leq I \leq 220 \mu\text{A}$	$1 \text{ kHz} < f \leq 5 \text{ kHz}$	0,56 mA/A	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$100 \mu\text{A} \leq I \leq 220 \mu\text{A}$	$5 \text{ kHz} < f \leq 10 \text{ kHz}$	2,2 mA/A	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$220 \mu\text{A} < I \leq 2,2 \text{ mA}$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	0,42 mA/A	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$220 \mu\text{A} < I \leq 2,2 \text{ mA}$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	0,30 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$220 \mu\text{A} < I \leq 2,2 \text{ mA}$	$40 \text{ Hz} < f \leq 1 \text{ kHz}$	0,22 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$220 \mu\text{A} < I \leq 2,2 \text{ mA}$	$1 \text{ kHz} < f \leq 5 \text{ kHz}$	0,46 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$220 \mu\text{A} < I \leq 2,2 \text{ mA}$	$5 \text{ kHz} < f \leq 10 \text{ kHz}$	1,8 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$2,2 \text{ mA} < I \leq 22 \text{ mA}$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	0,32 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$2,2 \text{ mA} < I \leq 22 \text{ mA}$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	0,22 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$2,2 \text{ mA} < I \leq 22 \text{ mA}$	$40 \text{ Hz} < f \leq 1 \text{ kHz}$	0,16 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$2,2 \text{ mA} < I \leq 22 \text{ mA}$	$1 \text{ kHz} < f \leq 5 \text{ kHz}$	0,30 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$2,2 \text{ mA} < I \leq 22 \text{ mA}$	$5 \text{ kHz} < f \leq 10 \text{ kHz}$	1,7 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$22 \text{ mA} < I \leq 220 \text{ mA}$	$10 \text{ Hz} \leq f \leq 20 \text{ Hz}$	0,53 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$22 \text{ mA} < I \leq 220 \text{ mA}$	$20 \text{ Hz} < f \leq 40 \text{ Hz}$	0,19 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$22 \text{ mA} < I \leq 220 \text{ mA}$	$40 \text{ Hz} < f \leq 1 \text{ kHz}$	0,23 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$22 \text{ mA} < I \leq 220 \text{ mA}$	$1 \text{ kHz} < f \leq 5 \text{ kHz}$	0,36 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$22 \text{ mA} < I \leq 220 \text{ mA}$	$5 \text{ kHz} < f \leq 10 \text{ kHz}$	1,6 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$220 \text{ mA} < I \leq 2,2 \text{ A}$	$20 \text{ Hz} \leq f \leq 1 \text{ kHz}$	0,34 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$220 \text{ mA} < I \leq 2,2 \text{ A}$	$1 \text{ kHz} < f \leq 5 \text{ kHz}$	0,55 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$220 \text{ mA} < I \leq 2,2 \text{ A}$	$5 \text{ kHz} < f \leq 10 \text{ kHz}$	8,1 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$2,2 \text{ A} < I \leq 11 \text{ A}$	$40 \text{ Hz} \leq f \leq 1 \text{ kHz}$	2,3 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A-5725A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$2,2 A < I \leq 11 A$	$1 \text{ kHz} < f \leq 5 \text{ kHz}$	2,5 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A-5725A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$2,2 A < I \leq 11 A$	$5 \text{ kHz} < f \leq 10 \text{ kHz}$	4,5 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5720A-5725A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$11 A \leq I \leq 20 A$	$45 \text{ Hz} \leq f \leq 1 \text{ kHz}$	6,3 mA/A	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5522A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	$11 A \leq I \leq 20 A$	$1 \text{ kHz} \leq f \leq 5 \text{ kHz}$	% 3,1	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with FLUKE 5522A Calibrator</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter (toroidal type)	$10 A \leq I \leq 15 A$	$45 \text{ Hz} \leq f \leq 65 \text{ Hz}$	% 0,28	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	$10 A \leq I \leq 15 A$	$65 \text{ Hz} < f \leq 440 \text{ Hz}$	% 0,65	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	$15 A < I < 150 A$	$45 Hz \leq f \leq 65 Hz$	% 0,35	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	$15 A < I < 150 A$	$65 Hz < f \leq 440 Hz$	% 0,76	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	$150 A \leq I < 500 A$	$45 Hz \leq f \leq 65 Hz$	% 0,28	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	$150 A \leq I < 500 A$	$65 Hz < f \leq 440 Hz$	% 0,67	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	$500 A \leq I \leq 1000 A$	$45 Hz \leq f \leq 65 Hz$	% 0,27	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Meter Pensampermeter Clampmeter (toroidal type)	$500 \text{ A} \leq I \leq 1000 \text{ A}$	$65 \text{ Hz} < f \leq 440 \text{ Hz}$	% 0,64	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	$10 \text{ A} \leq I \leq 15 \text{ A}$	$45 \text{ Hz} \leq f \leq 65 \text{ Hz}$	% 0,68	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	$10 \text{ A} \leq I \leq 15 \text{ A}$	$65 \text{ Hz} < f \leq 440 \text{ Hz}$	% 1,0	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	$15 \text{ A} < I < 150 \text{ A}$	$45 \text{ Hz} \leq f \leq 65 \text{ Hz}$	% 1,8	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	$15 \text{ A} < I < 150 \text{ A}$	$65 \text{ Hz} < f \leq 440 \text{ Hz}$	% 2,1	<p><i>I</i>: Measured current, A <i>f</i>: Frequency, Hz</p> <p>Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	$150 \text{ A} \leq I < 500 \text{ A}$	$45 \text{ Hz} \leq f \leq 65 \text{ Hz}$	% 0,90	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	$150 \text{ A} \leq I < 500 \text{ A}$	$65 \text{ Hz} < f \leq 440 \text{ Hz}$	% 1,3	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	$500 \text{ A} \leq I \leq 1000 \text{ A}$	$45 \text{ Hz} \leq f \leq 65 \text{ Hz}$	% 0,59	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	$500 \text{ A} \leq I \leq 1000 \text{ A}$	$65 \text{ Hz} < f \leq 440 \text{ Hz}$	% 0,92	<i>I</i> : Measured current, A <i>f</i> : Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$100 \mu\text{A} \leq I \leq 200 \mu\text{A}$	$10 \text{ Hz} \leq f \leq 10 \text{ kHz}$	$0,29 \cdot 10^{-3} \cdot I + 19 \text{ nA}$	<i>I</i> : Current, A <i>f</i> : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$100 \mu\text{A} \leq I \leq 200 \mu\text{A}$	$10 \text{ kHz} < f \leq 30 \text{ kHz}$	$0,72 \cdot 10^{-3} \cdot I + 19 \text{ nA}$	<i>I</i> : Current, A <i>f</i> : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Sources AC Current Source Calibrator: AC Current	$200 \mu\text{A} < I \leq 2 \text{ mA}$	$10 \text{ Hz} \leq f \leq 10 \text{ kHz}$	$0,26 \cdot 10^{-3} \cdot I + 0,2 \mu\text{A}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$200 \mu\text{A} < I \leq 2 \text{ mA}$	$10 \text{ kHz} < f \leq 30 \text{ kHz}$	$0,61 \cdot 10^{-3} \cdot I + 0,2 \mu\text{A}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$2 \text{ mA} < I \leq 20 \text{ mA}$	$10 \text{ Hz} \leq f \leq 10 \text{ kHz}$	$0,26 \cdot 10^{-3} \cdot I + 2 \mu\text{A}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$2 \text{ mA} < I \leq 20 \text{ mA}$	$10 \text{ kHz} < f \leq 30 \text{ kHz}$	$0,56 \cdot 10^{-3} \cdot I + 3,3 \mu\text{A}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$20 \text{ mA} < I \leq 200 \text{ mA}$	$10 \text{ Hz} \leq f \leq 10 \text{ kHz}$	$0,26 \cdot 10^{-3} \cdot I + 20 \mu\text{A}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$20 \text{ mA} < I \leq 200 \text{ mA}$	$10 \text{ kHz} < f \leq 30 \text{ kHz}$	$0,61 \cdot 10^{-3} \cdot I + 20 \mu\text{A}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$200 \text{ mA} < I \leq 2 \text{ A}$	$10 \text{ Hz} \leq f \leq 2 \text{ kHz}$	$0,60 \cdot 10^{-3} \cdot I + 0,2 \text{ mA}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Current AC Current Sources AC Current Source Calibrator: AC Current	$200 \text{ mA} < I \leq 2 \text{ A}$	$2 \text{ kHz} < f \leq 10 \text{ kHz}$	$0,73 \cdot 10^{-3} \cdot I + 0,2 \text{ mA}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$2 \text{ A} < I \leq 20 \text{ A}$	$10 \text{ Hz} \leq f \leq 2 \text{ kHz}$	$0,81 \cdot 10^{-3} \cdot I + 2 \text{ mA}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	$2 \text{ A} < I \leq 20 \text{ A}$	$2 \text{ kHz} < f \leq 10 \text{ kHz}$	$2,5 \cdot 10^{-3} \cdot I + 2 \text{ mA}$	I : Current, A f : Frequency, Hz Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	1 m Ω	(23 \pm 2) °C	0,41 m Ω/Ω	R : Measured Resistance, Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	10 m Ω	(23 \pm 2) °C	0,11 m Ω/Ω	R : Measured Resistance, Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	100 mΩ	(23 ± 2) °C	44 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	1 Ω	(23 ± 2) °C	32 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	10 Ω	(23 ± 2) °C	37 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	100 Ω	(23 ± 2) °C	14 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	1 kΩ	(23 ± 2) °C	13 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	10 kΩ	(23 ± 2) °C	14 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter Milliohmmeter	100 kΩ	(23 ± 2) °C	11 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter Milliohmmeter	1 MΩ	(23 ± 2) °C	17 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter Milliohmmeter	10 MΩ	(23 ± 2) °C	34 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter Milliohmmeter	1 GΩ	(23 ± 2) °C	0,61 mΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1 Ω	4 Wire (2-Wire for 100 MΩ)	96 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,9 Ω	4 Wires (2-Wire for 100 MΩ)	98 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	10 Ω	4 Wires (2-Wire for 100 MΩ)	25 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	19 Ω	4 Wires (2-Wire for 100 MΩ)	26 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	100 Ω	4 Wires (2-Wire for 100 MΩ)	12 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	190 Ω	4 Wires (2-Wire for 100 MΩ)	13 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1 kΩ	4 Wires (2-Wire for 100 MΩ)	10 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,9 kΩ	4 Wires (2-Wire for 100 MΩ)	12 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	10 kΩ	4 Wires (2-Wire for 100 MΩ)	10 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	19 kΩ	4 Wires (2-Wire for 100 MΩ)	12 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	100 kΩ	4 Wires (2-Wire for 100 MΩ)	13 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	190 kΩ	4 Wires (2-Wire for 100 MΩ)	14 μΩ/Ω	R: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1 MΩ	4 Wires (2-Wire for 100 MΩ)	21 μΩ/Ω	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,9 MΩ	4 Wires (2-Wire for 100 MΩ)	27 μΩ/Ω	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	10 MΩ	4 Wires (2-Wire for 100 MΩ)	41 μΩ/Ω	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory <i>calibration is made.</i>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	19 M Ω	4 Wires (2-Wire for 100 M Ω)	55 $\mu\Omega/\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	100 M Ω	4 Wires (2-Wire for 100 M Ω)	0,11 m Ω/Ω	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$0 \Omega \leq R < 11 \Omega$		$31 \cdot 10^{-6} \cdot R + 7,8 \text{ m}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$11 \Omega \leq R < 33 \Omega$		$23 \cdot 10^{-6} \cdot R + 12 \text{ m}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$33 \Omega \leq R \leq 110 \Omega$		$22 \cdot 10^{-6} \cdot R + 12 \text{ m}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$110 \Omega < R \leq 330 \Omega$		$22 \cdot 10^{-6} \cdot R + 16 \text{ m}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$330 \Omega < R \leq 1,1 \text{ k}\Omega$		$21 \cdot 10^{-6} \cdot R + 18 \text{ m}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$1,1 \text{ k}\Omega < R \leq 3,3 \text{ k}\Omega$		$21 \cdot 10^{-6} \cdot R + 24 \text{ m}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$3,3 \text{ k}\Omega < R \leq 11 \text{ k}\Omega$		$21 \cdot 10^{-6} \cdot R + 0,11 \Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$11 \text{ k}\Omega < R \leq 33 \text{ k}\Omega$		$22 \cdot 10^{-6} \cdot R + 0,81 \Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$33 \text{ k}\Omega < R \leq 110 \text{ k}\Omega$		$21 \cdot 10^{-6} \cdot R + 1,1 \Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$110 \text{ k}\Omega < R \leq 330 \text{ k}\Omega$		$24 \cdot 10^{-6} \cdot R + 8,9 \Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$330 \text{ k}\Omega < R \leq 1,1 \text{ M}\Omega$		$12 \cdot 10^{-6} \cdot R + 49 \Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$1,1 \text{ M}\Omega < R \leq 3,3 \text{ M}\Omega$		$29 \cdot 10^{-6} \cdot R + 0,3 \text{ k}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$3,3 \text{ M}\Omega < R \leq 11 \text{ M}\Omega$		$67 \cdot 10^{-6} \cdot R + 0,92 \text{ k}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$11 \text{ M}\Omega < R \leq 33 \text{ M}\Omega$		$74 \cdot 10^{-6} \cdot R + 15 \text{ k}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$33 \text{ M}\Omega < R \leq 110 \text{ M}\Omega$		$0,14 \cdot 10^{-3} \cdot R + 77 \text{ k}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$110 \text{ M}\Omega < R \leq 330 \text{ M}\Omega$		$2,3 \cdot 10^{-3} \cdot R + 43 \text{ k}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$330 \text{ M}\Omega \leq R \leq 1100 \text{ M}\Omega$		$12 \cdot 10^{-3} R + 0,45 \text{ M}\Omega$	<i>R</i> : Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	$1,1 \text{ G}\Omega \leq R \leq 2 \text{ G}\Omega$		$11 \text{ m}\Omega/\Omega$	<i>R</i> : Measured Resistance, Ω Direct Comparison Method with FLUKE 5320A Calibrator <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$1 \text{ G}\Omega \leq R \leq 10 \text{ G}\Omega$	250 V	$8 \cdot 10^{-4} \cdot R$	<i>R</i> : Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$1 \text{ G}\Omega \leq R \leq 10 \text{ G}\Omega$	500 V	$1,1 \cdot 10^{-3} \cdot R$	<i>R</i> : Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$1 \text{ G}\Omega \leq R \leq 10 \text{ G}\Omega$	1000 V	$1,7 \cdot 10^{-3} \cdot R$	<i>R</i> : Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$1 \text{ G}\Omega \leq R \leq 10 \text{ G}\Omega$	2500 V	$3,9 \cdot 10^{-3} \cdot R$	<i>R</i> : Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Insulation Tester	$1 \text{ G}\Omega \leq R \leq 10 \text{ G}\Omega$	5000 V	$7,6 \cdot 10^{-3} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$10 \text{ G}\Omega < R \leq 100 \text{ G}\Omega$	250 V	$3,9 \cdot 10^{-3} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$10 \text{ G}\Omega < R \leq 100 \text{ G}\Omega$	500 V	$4,5 \cdot 10^{-3} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$10 \text{ G}\Omega < R \leq 100 \text{ G}\Omega$	1000 V	$6,3 \cdot 10^{-3} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$10 \text{ G}\Omega < R \leq 100 \text{ G}\Omega$	2500 V	$1,4 \cdot 10^{-2} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$10 \text{ G}\Omega < R \leq 100 \text{ G}\Omega$	5000 V	$2,6 \cdot 10^{-2} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Meters Insulation Tester	$100 \text{ G}\Omega < R \leq 1 \text{ T}\Omega$	250 V	$4,1 \cdot 10^{-3} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$100 \text{ G}\Omega < R \leq 1 \text{ T}\Omega$	500 V	$4,7 \cdot 10^{-3} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$100 \text{ G}\Omega < R \leq 1 \text{ T}\Omega$	1000 V	$6,4 \cdot 10^{-3} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$100 \text{ G}\Omega < R \leq 1 \text{ T}\Omega$	2500 V	$1,4 \cdot 10^{-2} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Meters Insulation Tester	$100 \text{ G}\Omega < R \leq 1 \text{ T}\Omega$	5000 V	$2,6 \cdot 10^{-2} \cdot R$	R: Measured Resistance, Ω Direct Comparison Method with Decade Resistance <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$1 \text{ m}\Omega \leq R \leq 2 \Omega$	4-wire	$11 \cdot 10^{-6} \cdot R + 4 \mu\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$2 \Omega < R \leq 20 \Omega$	4-wire	$7,7 \cdot 10^{-6} \cdot R + 26 \mu\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$20 \Omega < R \leq 200 \Omega$	4-wire	$10 \mu\Omega/\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$200 \Omega < R \leq 2 \text{ k}\Omega$	4-wire	$10 \mu\Omega/\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$2 \text{ k}\Omega < R \leq 20 \text{ k}\Omega$	4-wire	$10 \mu\Omega/\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$20 \text{ k}\Omega < R \leq 200 \text{ k}\Omega$	4-wire	$11 \mu\Omega/\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$200 \text{ k}\Omega < R \leq 2 \text{ M}\Omega$	4-wire or 2-wire	$14 \mu\Omega/\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$2 \text{ M}\Omega < R \leq 20 \text{ M}\Omega$	4-wire or 2-wire	$16 \cdot 10^{-6} \cdot R + 91 \Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$20 \text{ M}\Omega < R \leq 200 \text{ M}\Omega$	4-wire or 2-wire	$51 \cdot 10^{-6} \cdot R + 9,7 \text{ k}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	$200 \text{ M}\Omega < R \leq 2 \text{ G}\Omega$	4-wire or 2-wire	$0,52 \cdot 10^{-3} \cdot R + 1 \text{ M}\Omega$	R: Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$220 \text{ pF} \leq C < 400 \text{ pF}$	$10 \text{ Hz} \leq f \leq 10 \text{ kHz}$	$3,7 \cdot 10^{-3} \cdot C + 9 \text{ pF}$	C: Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$0,4 \text{ nF} \leq C < 1,1 \text{ nF}$	$10 \text{ Hz} \leq f \leq 10 \text{ kHz}$	$3,6 \cdot 10^{-3} \cdot C + 10 \text{ pF}$	C: Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$1,1 \text{ nF} \leq C < 3,3 \text{ nF}$	$10 \text{ Hz} \leq f \leq 3 \text{ kHz}$	$3,9 \cdot 10^{-3} \cdot C + 10 \text{ pF}$	C: Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory <i>calibration is made.</i>



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$3,3 \text{ nF} \leq C < 11 \text{ nF}$	$10 \text{ Hz} \leq f \leq 1 \text{ kHz}$	$1,6 \cdot 10^{-3} \cdot C + 17 \text{ pF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$11 \text{ nF} \leq C < 33 \text{ nF}$	$10 \text{ Hz} \leq f \leq 1 \text{ kHz}$	$1,9 \cdot 10^{-3} \cdot C + 92 \text{ pF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$33 \text{ nF} \leq C < 110 \text{ nF}$	$10 \text{ Hz} \leq f \leq 1 \text{ kHz}$	$1,5 \cdot 10^{-3} \cdot C + 0,21 \text{ nF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$110 \text{ nF} \leq C < 330 \text{ nF}$	$10 \text{ Hz} \leq f \leq 1 \text{ kHz}$	$1,5 \cdot 10^{-3} \cdot C + 0,56 \text{ nF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$0,33 \text{ nF} \leq C < 1,1 \text{ }\mu\text{F}$	$10 \text{ Hz} \leq f \leq 600 \text{ Hz}$	$1,5 \cdot 10^{-3} \cdot C + 2 \text{ nF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$1,1 \text{ }\mu\text{F} \leq C < 3,3 \text{ }\mu\text{F}$	$10 \text{ Hz} \leq f \leq 300 \text{ Hz}$	$1,5 \cdot 10^{-3} \cdot C + 5,6 \text{ nF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$3,3 \mu\text{F} \leq C < 11 \mu\text{F}$	$10 \text{ Hz} \leq f \leq 150 \text{ Hz}$	$1,3 \cdot 10^{-3} \cdot C + 26 \text{ nF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$11 \mu\text{F} \leq C < 33 \mu\text{F}$	$10 \text{ Hz} \leq f \leq 120 \text{ Hz}$	$2,3 \cdot 10^{-3} \cdot C + 76 \text{ nF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$33 \mu\text{F} \leq C < 110 \mu\text{F}$	$10 \text{ Hz} \leq f \leq 80 \text{ Hz}$	$2,6 \cdot 10^{-3} \cdot C + 0,29 \mu\text{F}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$110 \mu\text{F} \leq C < 330 \mu\text{F}$	$0 \text{ Hz} \leq f \leq 50 \text{ Hz}$	$3,1 \cdot 10^{-3} \cdot C + 0,49 \mu\text{F}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$0,33 \text{ mF} \leq C < 1,1 \text{ mF}$	$0 \text{ Hz} \leq f \leq 20 \text{ Hz}$	$3,0 \cdot 10^{-3} \cdot C + 1,8 \mu\text{F}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$1,1 \text{ mF} \leq C < 3,3 \text{ mF}$	$0 \text{ Hz} \leq f \leq 6 \text{ Hz}$	$2,8 \cdot 10^{-3} \cdot C + 6,7 \mu\text{F}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$3,3 \text{ mF} \leq C < 11 \text{ mF}$	$0 \text{ Hz} \leq f \leq 2 \text{ Hz}$	$3,0 \cdot 10^{-3} \cdot C + 18 \text{ } \mu\text{F}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: capacitance	$11 \text{ mF} \leq C < 33 \text{ mF}$	$0 \text{ Hz} \leq f \leq 0,6 \text{ Hz}$	$4,4 \cdot 10^{-3} \cdot C + 0,11 \text{ mF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	$33 \text{ mF} \leq C \leq 110 \text{ mF}$	$0 \text{ Hz} \leq f \leq 0,2 \text{ Hz}$	$7,5 \cdot 10^{-2} \cdot C + 0,28 \text{ mF}$	C : Measured Capacitance, F f: Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC High Voltage AC High Voltage Sources	$1 \text{ kV} \leq U \leq 10 \text{ kV}$	60 Hz	% 0,27	U: Measured Voltage, V With High Voltage Divider and Multimeter IEC 60060-1 IEC 60060-2 IEC 60060-3 • In customer place • In the laboratory calibration is made.
DC High Voltage DC High Voltage Sources	$1 \text{ kV} < U \leq 15 \text{ kV}$		% 0,15	U: Measured Voltage, V With High Voltage Divider and Multimeter IEC 60060-1 IEC 60060-2 IEC 60060-3 • In customer place • In the laboratory calibration is made.

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TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

DC Power and Energy Power Meter Wattmeter	$0,011 \text{ W} < P \leq 33 \text{ W}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $3,3 \text{ mA} \leq I \leq 33 \text{ mA}$	$1,5 \cdot 10^{-4} \cdot P + 4,7 \mu\text{W}$	<p>P: Power, W U: Voltage, V I: Current, A</p> <p>Direct measurement method with FLUKE 5522A</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
DC Power and Energy Power Meter Wattmeter	$0,11 \text{ W} < P \leq 330 \text{ W}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $33 \text{ mA} \leq I \leq 330 \text{ mA}$	$1,4 \cdot 10^{-4} \cdot P + 49 \mu\text{W}$	<p>P: Power, W U: Voltage, V I: Current, A</p> <p>Direct measurement method with FLUKE 5522A</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
DC Power and Energy Power Meter Wattmeter	$1,1 \text{ W} < P \leq 3000 \text{ W}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $330 \text{ mA} \leq I \leq 3 \text{ A}$	$4,7 \cdot 10^{-4} \cdot P + 0,12 \text{ mW}$	<p>P: Power, W U: Voltage, V I: Current, A</p> <p>Direct measurement method with FLUKE 5522A</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
DC Power and Energy Power Meter Wattmeter	$9,9 \text{ W} < P \leq 11 \text{ kW}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $3 \text{ A} \leq I \leq 11 \text{ A}$	$1,4 \cdot 10^{-3} \cdot P - 5,8 \text{ mW}$	<p>P: Power, W U: Voltage, V I: Current, A</p> <p>Direct measurement method with FLUKE 5522A</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>
DC Power and Energy Power Meter Wattmeter	$33 \text{ W} < P \leq 20 \text{ kW}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $11 \text{ A} \leq I \leq 20 \text{ A}$	$1,2 \cdot 10^{-3} \cdot P + 4,7 \text{ mW}$	<p>P: Power, W U: Voltage, V I: Current, A</p> <p>Direct measurement method with FLUKE 5522A</p> <ul style="list-style-type: none"> In customer place In the laboratory <p>calibration is made.</p>

Accreditation Scope



Calibration
TS EN ISO/IEC 17025
AB-0092-K

TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$0,011 W < P \leq 33 W$	$3,3 V \leq U \leq 1000 V$ $3,3 mA \leq I \leq 33 mA$ $0 \leq f \leq 55 Hz$ PF: 1	$1,8 \cdot 10^{-3} \cdot P + 0,18 mW$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$0,011 W < P \leq 33 W$	$3,3 V \leq U \leq 1000 V$ $3,3 mA \leq I \leq 33 mA$ $55 Hz \leq f \leq 1 kHz$ PF:1	$1,8 \cdot 10^{-3} \cdot P + 0,18 mW$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$0,11 W < P \leq 330 W$	$3,3 V \leq U \leq 1000 V$ $33 mA \leq I \leq 330 mA$ $0 \leq f \leq 55 Hz$ PF: 1	$1,3 \cdot 10^{-3} \cdot P + 1,3 mW$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.

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TS EN ISO/IEC 17025
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Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$0,11 \text{ W} < P \leq 330 \text{ W}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $33 \text{ mA} \leq I \leq 330 \text{ mA}$ $55 \text{ Hz} \leq f \leq 1 \text{ kHz}$ PF: 1	$1,3 \cdot 10^{-3} \cdot P + 1,3 \text{ mW}$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$1,1 \text{ W} < P \leq 3000 \text{ W}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $330 \text{ mA} \leq I \leq 3 \text{ A}$ $0 \leq f \leq 55 \text{ Hz}$ PF: 1	$7,4 \cdot 10^{-3} \cdot P + 65 \text{ mW}$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$1,1 \text{ W} < P \leq 3000 \text{ W}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $330 \text{ mA} \leq I \leq 3 \text{ A}$ $55 \text{ Hz} \leq f \leq 1 \text{ kHz}$ PF: 1	$7,4 \cdot 10^{-3} \cdot P + 65 \text{ mW}$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.

Accreditation Scope



Calibration
TS EN ISO/IEC 17025
AB-0092-K

TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$9,5 \text{ W} < P \leq 11000 \text{ W}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $3 \text{ A} \leq I \leq 11 \text{ A}$ $0 \text{ Hz} \leq f \leq 55 \text{ Hz}$ PF: 1	$1,6 \cdot 10^{-2} \cdot P + 0,42 \text{ W}$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$9,5 \text{ W} < P \leq 11000 \text{ W}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $3 \text{ A} \leq I \leq 11 \text{ A}$ $55 \text{ Hz} \leq f \leq 1 \text{ kHz}$ PF: 1	$1,6 \cdot 10^{-2} \cdot P + 0,42 \text{ W}$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$36,3 \text{ W} < P \leq 20 \text{ kW}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $11 \text{ A} \leq I \leq 20 \text{ A}$ $0 \text{ Hz} \leq f \leq 55 \text{ Hz}$ PF: 1	$8,6 \cdot 10^{-3} \cdot P + 0,26 \text{ W}$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.

Accreditation Scope



Calibration
TS EN ISO/IEC 17025
AB-0092-K

TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	$36,3 \text{ W} < P \leq 20 \text{ kW}$	$3,3 \text{ V} \leq U \leq 1000 \text{ V}$ $11 \text{ A} \leq I \leq 20 \text{ A}$ $55 \text{ Hz} \leq f \leq 1 \text{ kHz}$ PF: 1	$8,6 \cdot 10^{-3} \cdot P + 0,26 \text{ W}$	P : Power, W U : Voltage, V I : Current, A f : Frequency, Hz PF : Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Signal and Pulse Characteristics Vertical Deflection (Gain) Oscilloscope	$1 \text{ mV} \leq U \leq 5 \text{ V}$	DC 50 Ω - 1 M Ω	$3,5 \cdot 10^{-3} \cdot U + 22 \mu\text{V}$	U : Measured voltage, V Direct measurement method with FLUKE 9500B • In customer place • In the laboratory calibration is made.
Inductance Inductance Meters LCR Meter: Inductance	100 μH	1 kHz	$2,6 \cdot 10^{-3} \cdot L$	L : Measured Inductance Value Direct Comparison Method with Standard Inductances • In customer place • In the laboratory calibration is made.
Inductance Inductance Meters LCR Meter: Inductance	1 mH	1 kHz	$1,4 \cdot 10^{-3} \cdot L$	L : Measured Inductance Value Direct Comparison Method with Standard Inductances • In customer place • In the laboratory calibration is made.
Inductance Inductance Meters LCR Meter: Inductance	10 mH	1 kHz	$1,1 \cdot 10^{-3} \cdot L$	L : Measured Inductance Value Direct Comparison Method with Standard Inductances • In customer place • In the laboratory calibration is made.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Inductance Inductance Meters LCR Meter: Inductance	100 mH	1 kHz	$1,1 \cdot 10^{-3} \cdot L$	L: Measured Inductance Value Direct Comparison Method with Standard Inductances <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitor Capacitance Standards Capacitance Boxes	$100 \text{ pF} \leq C < 1000 \text{ pF}$	100 Hz	$2,6 \cdot 10^{-3} \cdot C + 0,01 \text{ pF}$	C: Capacity Direct Comparison Method with RLC Meter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitor Capacitance Standards Capacitance Boxes	$1 \text{ nF} \leq C < 10 \text{ nF}$	100 Hz	$2,0 \cdot 10^{-4} \cdot C + 0,01 \text{ nF}$	C: Capacity Direct Comparison Method with RLC Meter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitor Capacitance Standards Capacitance Boxes	$10 \text{ nF} \leq C < 100 \text{ nF}$	100 Hz	$2,5 \cdot 10^{-3} \cdot C + 0,002 \text{ nF}$	C: Capacity Direct Comparison Method with RLC Meter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitor Capacitance Standards Capacitance Boxes	$100 \text{ nF} \leq C < 1000 \text{ nF}$	100 Hz	$2,6 \cdot 10^{-3} \cdot C + 0,005 \text{ nF}$	C: Capacity Direct Comparison Method with RLC Meter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitor Capacitance Standards Capacitance Boxes	$1 \text{ }\mu\text{F} \leq C < 10 \text{ }\mu\text{F}$	100 Hz	$1,9 \cdot 10^{-3} \cdot C + 0,01 \text{ }\mu\text{F}$	C: Capacity Direct Comparison Method with RLC Meter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.
Capacitance Capacitor Capacitance Standards Capacitance Boxes	$10 \text{ }\mu\text{F} \leq C < 100 \text{ }\mu\text{F}$	100 Hz	$2,7 \cdot 10^{-3} \cdot C + 0,0001 \text{ }\mu\text{F}$	C: Capacity Direct Comparison Method with RLC Meter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.

Accreditation Scope

 Calibration TS EN ISO/IEC 17025 AB-0092-K		TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025		
Capacitance Capacitor Capacitance Standards Capacitance Boxes	$100 \mu\text{F} \leq C < 1000 \mu\text{F}$	100 Hz	$2,9 \cdot 10^{-3} \cdot C$	C: Capacity Direct Comparison Method with RLC Meter <ul style="list-style-type: none">In customer placeIn the laboratory calibration is made.

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 <p>Calibration TS EN ISO/IEC 17025 AB-0092-K</p>	<p>TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ</p> <p>Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025</p>
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Calibration and Measurement Capability (CMC)

Magnetic Quantities

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
DC Magnetic Flux Density and Intensity Magnetic Field Intensity Meter	$0 \text{ G} \leq H \leq 100 \text{ G}$	Analogue Horizontal / Vertical	$1,4 \cdot 10^{-4} \cdot H + 0,6 \text{ G}$	<i>H</i> : Measured Magnetic Field Comparison method with automatic Helmholtz calibration system
DC Magnetic Flux Density and Intensity Magnetic Field Intensity Meter	$0 \text{ G} \leq H \leq 100 \text{ G}$	Digital Horizontal / Vertical	$7,8 \cdot 10^{-3} \cdot H + 0,002 \text{ G}$	<i>H</i> : Measured Magnetic Field • Comparison method with automatic Helmholtz calibration system

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 <p>Calibration TS EN ISO/IEC 17025 AB-0092-K</p>	<p>TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ</p> <p>Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025</p>
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Calibration and Measurement Capability (CMC)

Mass (Mass Standards)

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Weight Standard F1 Standard Weights	1 g	-	0,03 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	2 g	-	0,04 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	5 g	-	0,05 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	10 g	-	0,06 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	20 g	-	0,08 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	50 g	-	0,1 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	100 g	-	0,16 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	200 g	-	0,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	500 g	-	0,8 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Weight Standard F1 Standard Weights	1 kg	-	1,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	2 kg	-	3,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	5 kg	-	8,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	10 kg	-	16 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	1 g	-	0,10 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	2 g	-	0,12 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	5 g	-	0,16 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	10 g	-	0,20 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	20 g	-	0,25 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	50 g	-	0,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	100 g	-	0,5 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Weight Standard F2 Standard Weights	200 g	-	1,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	500 g	-	2,5 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	1 kg	-	5,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	2 kg	-	10 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	5 kg	-	25 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	10 kg	-	50 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	1 g	-	0,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	2 g	-	0,4 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	5 g	-	0,5 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	10 g	-	0,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	20 g	-	0,8 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Weight Standard M1 Standard Weights	50 g	-	1,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	100 g	-	1,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	200 g	-	3,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	500 g	-	8,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	1 kg	-	16 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	2 kg	-	30 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	5 kg	-	80 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	10 kg	-	160 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	20 kg	-	300 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	50 kg	-	800 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	1 g		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Weight Standard Non-Standard Weights	2 g		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	5 g		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	10 g		3,3 g	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	20 g		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	50 g		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	100 g		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	200 g		3,4 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	500 g		3,5 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	1 kg		4,2 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	2 kg		60,9 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

Accreditation Scope



TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Weight Standard Non-Standard Weights	5 kg		62 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. <ul style="list-style-type: none">• Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	10 kg		143,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. <ul style="list-style-type: none">• Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	20 kg		149,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. <ul style="list-style-type: none">• Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	50 kg		149,4 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. <ul style="list-style-type: none">• Calibration is done in the laboratory.

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TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr : AB-0092-K
Revision Nr: 15 Date: 12.12.2025

Calibration and Measurement Capability (CMC)

Weighing Tools

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Non-automatic Weighing Devices Scales	1 mg < m ≤ 10000 g	With Class E2 mass	2,2 · 10 ⁻⁶	m : Weight value (g) Calibration procedure prepared in accordance with the EURAMET/cg-18 document <ul style="list-style-type: none">Where the device is used
Non-automatic Weighing Devices Scales	1 g < m ≤ 50 kg	With Class F1 mass	6,9 · 10 ⁻⁶	m : Weight value (g) Calibration procedure prepared in accordance with the EURAMET/cg-18 document <ul style="list-style-type: none">Where the device is used
Non-automatic Weighing Devices Scales	10 kg < m ≤ 1000 kg	With Class M1 mass	6,9 · 10 ⁻⁵	m : Weight value (kg) Calibration procedure prepared in accordance with the EURAMET/cg-18 document <ul style="list-style-type: none">Where the device is used

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 <p>Calibration TS EN ISO/IEC 17025 AB-0092-K</p>	<p>TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ</p> <p>Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025</p>
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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	$0,45 \text{ kN} \leq F \leq 200 \text{ kN}$	In the tensile and compression direction with a 0.5 class load cell	0,16 %	F: Applied force (N) Prepared calibration procedure in accordance with TS EN ISO 7500-1 • Customer premises
Material Testing Machines Tensile / Compression Testing Machine	$2 \text{ kN} \leq F \leq 200 \text{ kN}$	In the tensile and compression direction with a 0.5 class load cell	0,16 %	F: Applied force (N) Prepared calibration procedure in accordance with TS EN ISO 7500-1 • Customer premises

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 <p>Calibration TS EN ISO/IEC 17025 AB-0092-K</p>	<p>TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ</p> <p>Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025</p>
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Calibration and Measurement Capability (CMC)				
Torque				
Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Torque Measurement Devices Torque Hand Tools	0,04 N·m ≤ M ≤ 1350 N·m	Clockwise and counterclockwise	1,0 %	M: Measured Torque (N·m) Prepared calibration procedure in accordance with TS EN ISO 6789-2 document.

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 <p>Calibration TS EN ISO/IEC 17025 AB-0092-K</p>	<p>TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ</p> <p>Accreditation Nr : AB-0092-K Revision Nr: 15 Date: 12.12.2025</p>
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Calibration and Measurement Capability (CMC)

Optical Quantities

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Optical Sensitivity Luxmeter	$3 \text{ lx} \leq E_v \leq 5000 \text{ lx}$	2856 K Comparison with reference	1,0 %	E_v : Measured lux Calibration procedure prepared based: ISO/CIE 19476
Luminance Responsivity Luminance meter	$120 \text{ cd/m}^2 \leq L_v \leq 1214 \text{ cd/m}^2$	2856 K colour temperature	2,7 %	L_v : Luminance Responsivity Calibration procedure in accordance with: ISO/CIE 19476
Responsivity, UV, Broadband irradiance UV Radiometer	$0,015 \text{ W/m}^2 \leq E_e \leq 100 \text{ W/m}^2$	UV-A range	5,3 %	E_e : Irradiance Responsivity Calibration procedure in accordance with: CIE 220
Diffuse Transmission Optical Density	$0,15 \text{ OD} \leq OD \leq 5,15 \text{ OD}$	Densitometer Optical Density Films	0,3 %	OD: Optical Density Calibration procedure in accordance with: ASTM-D 1003-13, ASTM-E 1079-10, • Customer premises • Laboratory

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