



TURKISH ACCREDITATION AGENCY

## ACCREDITATION CERTIFICATE

As a Calibration Laboratory

### ROKETSAN ROKET SANAYİ VE TİCARET ANONİM ŞİRKETİ

Central Address: KEMALPAŞA MAH. ŞEHİT YÜZBAŞI ADEM KUTLU CAD. ROKETSAN NO:21 AA ELMADAĞ Ankara / 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-0127-K**

**Accreditation Date : 10.05.2014**

**Revision Date / Number : 26.01.2024 / 05**


This certificate shall remain in force until **06.09.2026**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu  
Secretary General



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

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

 <p>Calibration TS EN ISO/IEC 17025 AB-0127-K</p>	<b>ROKETSAN ROKET SANAYİ VE TİCARET ANONİM ŞİRKETİ</b>	
	Accreditation Nr: AB-0127-K Revision Nr: 05 Date: 26.01.2024	
<b>Calibration Laboratory</b>		
Address : KEMALPAŞA MAH. ŞEHİT YÜZBAŞI ADEM KUTLU CAD. ROKETSAN NO:21 AA ELMADAĞ Ankara / Türkiye		Phone : +90 312 860 5500 Fax : - Email : meryem.tutuncu@roketsan.com.tr Website :


**Calibration and Measurement Capability (CMC)**

**Dimensional Quantities**

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
<b>Handheld Basic Measuring Devices</b>  Caliper (External diameter, Internal diameter, Depth, Step measurements)	$L \leq 1000$ mm	$r = 0,01$ mm	$(7 + 12,1 \cdot L) \mu\text{m}$	Calibration is carried out in the Laboratory according to the calibration procedure prepared in accordance with VDI/VDE/DGQ 2618 - Section 9.1 document.  L: Measured length [m]  r: Resolution
<b>Handheld Basic Measuring Devices</b>  Outer Diameter Micrometry	$L \leq 500$ mm	$r = 0,001$ mm	$(1,2 + 13,3 \cdot L) \mu\text{m}$	Calibration is carried out in the Laboratory according to the calibration procedure prepared in accordance with VDI/VDE/DGQ 2618 - Section 10.1 document.  L: Measured length [m]  r: Resolution
<b>Screw Standards</b>  Flat Screw Plug Gauge	$4 \text{ mm} \leq D \leq 50$ mm	Pitch : 0,7 - 5,0 mm	2,2 $\mu\text{m}$	Calibration is carried out in the Laboratory according to the calibration procedure prepared in accordance with the VDI/VDE/DGQ 2618 - Section 4.8 document.  D: Pitch diameter

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Calibration and Measurement Capability (CMC)

Acceleration

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
<b>Linear Vibration</b>  Accelerometers Sensor weight: 100 grams	$0,98 \leq a \leq 98 \text{ m/s}^2$	$10 \text{ Hz} \leq f \leq 999 \text{ Hz}$ $1000 \text{ Hz} \leq f \leq 5000 \text{ Hz}$	0,97% 1,3%	ISO 16063-21 Comparison calibration of accelerometers with reference accelerometers  f: Frequency a: Acceleration

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**Calibration and Measurement Capability (CMC)**

**Temperature**

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
<b>In Controlled Volumes (Temperature Distribution)</b> Ovens, sterilizers, incubators, ovens, cold rooms, refrigerators, climatic cabins	$-40\text{ °C} \leq T \leq 200\text{ °C}$	Temperature Distribution Inside the Cabin	1,2 °C	Calibration is carried out at the customer site or in the laboratory with the Portable calibration system (using T-Type Thermocouple sensor) according to the calibration procedure prepared in accordance with EURAMET cg.20, DKD-R 5-7, AMS 2750 and EN 60068 documents.
<b>In Controlled Volumes (Relative Humidity Distribution)</b> • Air conditioning cabin	$10\text{ %rh} \leq RH \leq 90\text{ %rh}$	Central Relative Humidity At $23\text{ °C} \leq T \leq 60\text{ °C}$	3,1 %rh	Calibration is carried out at the customer site or in the laboratory using the Portable calibration system (T Type Thermocouple sensor and relative humidity sensor) according to the calibration procedure prepared in accordance with EURAMET cg.20, DKD-R 5-7 and EN 60068 documents.
<b>In Controlled Volumes (Relative Humidity Distribution)</b> • Air conditioning cabin	$10\text{ %rh} \leq RH \leq 90\text{ %rh}$	Central Relative Humidity At $23\text{ °C} \leq T \leq 60\text{ °C}$	3,1 %rh	Calibration is carried out at the customer site or in the laboratory using the Portable calibration system (T Type Thermocouple sensor and relative humidity sensor) according to the calibration procedure prepared in accordance with EURAMET cg.20, DKD-R 5-7 and EN 60068 documents.

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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
<b>Time Range</b>  Interval Meters  Time Interval Meters Time Difference Meter (Frequency Counter, Stopwatch, Timer)	100 ns ≤ t < 100 ms	Comparison with frequency counter	2,00 . 10 <sup>-9</sup> s 5,00 . 10 <sup>-9</sup> s 3,00 . 10 <sup>-8</sup> s 6,00 . 10 <sup>-7</sup> s	t: Measured time interval [s]  Customer Onsite In the laboratory In temporary or mobile facilities  calibration is done.
<b>Time Range</b>  Interval Meters  Time Interval Meter	100 ns ≤ t < 100 ms	Comparison with frequency counter	2,0 . 10 <sup>-9</sup> s	t: Measured time interval [s]  Customer Onsite In the laboratory In temporary or mobile facilities  calibration is done.
<b>Time Range</b>  Interval Meters  Speed Meter	25 m/s ≤ v < 400 m/s	Comparison with the reference value calculated from the time interval and size measurements	0,3 m/s	V: Speed (m/s)  At customer premises In the laboratory  Calibration is done.  Traceability is achieved over time interval and dimension scopes.
<b>Time Range</b>  Interval Meters  Time Interval Meter	100 ms ≤ t < 200 ms	Comparison with frequency counter	5,0 . 10 <sup>-9</sup> s	t: Measured time interval [s]  Customer Onsite In the laboratory In temporary or mobile facilities  calibration is done.
<b>Time Range</b>  Interval Meters  Time Interval Meter	200 ms ≤ t < 1 s	Comparison with frequency counter	3,0 . 10 <sup>-8</sup> s	t: Measured time interval [s]  Customer Onsite In the laboratory In temporary or mobile facilities  calibration is done.



## Accreditation Scope

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<p><b>Time Range</b></p> <p>Interval Meters</p> <p>Time Interval Meter</p>	$1 \text{ s} \leq t \leq 10 \text{ s}$	<p>Comparison with frequency counter</p>	$6,0 \cdot 10^{-7} \text{ s}$	<p>t: Measured time interval [s]</p> <p>Customer Onsite In the laboratory In temporary or mobile facilities</p> <p>calibration is done.</p>
<p><b>Time Range</b></p> <p>Interval Meters</p> <p>Speed Meter</p>	$400 \text{ m/s} \leq V < 1500 \text{ m/s}$	<p>Comparison with the reference value calculated from the time interval and size measurements</p>	$0,8 \text{ m/s}$	<p>V: Speed (m/s)</p> <p>At customer premises In the laboratory</p> <p>Calibration is done.</p> <p>Traceability is achieved over time interval and dimension scopes.</p>

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