



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ

Central Address: BATI SİTESİ MAH. TAHSİN KAHRAMAN CAD. GERSAN SANAYİ SITESİ SASTEK NO:82 YENİMAHALLE 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-1028-T

Accreditation Date : 05.10.2016

Revision Date / Number : 08.02.2023 / 06

This certificate shall remain in force until **03.10.2024**, 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.


 Test TS EN ISO/IEC 17025 AB-1028-T	SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ	
	Accreditation Nr: AB-1028-T Revision Nr: 06 Date: 08.02.2023	
Testing Laboratory		
Address : BATI SİTESİ MAH. TAHSİN KAHRAMAN CAD. GERSAN SANAYİ SİTESİ SASTEK NO:82 YENİMAHALLE Ankara / Türkiye	Phone : +90 312 385 3534 Fax : - Email : nurdan@sastek.com.tr Website :	

Meters		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Water Meters	Dry Heat Test (non-condensing)	EN ISO 4064-2:2017 Article 8.2 OIML 49-2:2013 Article 8.2 2004/22/AT MI-001 2014/32/AB Annex 3 MI-001 EN 14154-3:2005 Article 6.2.1 75/33/AT Cold Water Meters
Water Meters	Cold Test	EN ISO 4064-2:2017 Article 8.3 OIML 49-2:2013 Article 8.3 2004/22/AT MI-001 2014/32/AB Annex 3 MI-001 EN 14154-3:2005 Article 6.2.2 75/33/AT Cold Water Meters
Water Meters	Damp heat, cyclic (condensing)	ISO 4064-2 Article 8.4 OIML R 49-1 Article 8.4 TS EN 14154-3+A2 Article 6.2.3
Water Meters	Flow disturbance tests	EN ISO 4064-2:2017 Article 7.10 OIML 49-2:2013 Article 7.10 2004/22/AT MI-001 2014/32/AB Annex 3 MI-001 EN 14154-3:2005 Article 5.9 75/33/AT Cold Water Meters
Water Meters	Overload water temperature test	EN ISO 4064-2:2017 Article 7.6 OIML 49-2:2013 Article 7.6 2004/22/AT MI-001 2014/32/AB Annex 3 MI-001 EN 14154-3:2005 Article 5.7 75/33/AT Cold Water Meters
Water Meters	Pressure Loss Test	TS EN ISO 4064-2: Article 7.9 TS EN 14154-3+A1 Article 5.11 Cold Water Meters Regulation 75/33/AT : Article 3.4 2004/22/AT Measurement Devices Regulation: Annex MI-001 2014/32/AB Measurement Devices Regulation: Annex-3 MI-001

false

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.





 SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ		
Accreditation Nr: AB-1028-T Revision Nr: 06 Date: 08.02.2023		
Testing Laboratory		
Address : BATI SİTESİ MAH. TAHSİN KAHRAMAN CAD. GERSAN SANAYİ SİTESİ SASTEK NO:82 YENİMAHALLE Ankara / Türkiye		Phone : +90 312 385 3534 Fax : - Email : nurdan@sastek.com.tr Website :
Water Meters	Static Pressure Test	TS EN ISO 4064-2: Article 7.3 TS EN 14154-3+A1 Article 5.2 Cold Water Meters Regulation 75/33/AT: Article 3.3 2004/22/AT Measurement Devices Regulation : Annex MI-001 2014/32/AB Measurement Devices Regulation : Annex-3 MI-001
Water Meters	Determination of intrinsic errors (of indication)	TS EN ISO 4064-2: Article 7.4 TS EN 14154-3+A1 Article 5.4 Cold Water Meters Regulation 75/33/AT: Article 2 2004/22/AT Measurement Devices Regulation: Annex MI-001 2014/32/AB Measurement Devices Regulation: Annex-3 MI-001
Water Meters	Durability - Continuous Flow	ISO 4064-2 Article 7.11 OIML R 49-1 Article 7.11 TS EN 14154-3+A2 Article 5.13
Water Meters	Absence of flow test	ISO 4064-2 Article 8.17 OIML R 49-1 Article 8.17 TS EN 14154-3+A2 Article 5.5
Water Meters	Water pressure test	ISO 4064-2 Article 7.7 OIML R 49-1 Article 7.7 TS EN 14154-3+A2 Article 5.8
Water Meters	Reverse Flow Test	TS EN ISO 4064-2 Article 7.8 OIML R 49-2 Article 7.8 2014/32/AB Measurement Devices Regulation (MI-001) TS EN 14154-3+A2 Article 5.12
Measuring systems for continuous and dynamic measurement of quantities of liquids other than water	Performance tests	OIML R 117 OIML R 118
Measuring systems for continuous and dynamic measurement of quantities of liquids other than water	Dry Heat (Non-Condensing) Test	OIML R 117 OIML R 118
Measuring systems for continuous and dynamic measurement of quantities of liquids other than water	Cold Test	OIML R 117 OIML R 118
Measuring systems for continuous and dynamic measurement of quantities of liquids other than water	Damp Heat, Cyclic (Condensing) Test	OIML R 117 OIML R 118
Heat Meters	Dry Heat Test (Non-Condensing)	TS EN 1434-4:2015 Article 7.5 OIML R75-2:2002 Article 6.5 2004/22/AT MI-004 2014/32/AB Annex 6 MI-004

false

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.




Accreditation Scope

 TÜRKAK  <small>Test</small> <small>TS EN ISO/IEC 17025</small> <small>AB-1028-T</small>	SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ <small>Accreditation Nr: AB-1028-T</small> <small>Revision Nr: 06 Date: 08.02.2023</small>	
	Testing Laboratory	
	<small>Address :</small> <small>BATI SİTESİ MAH. TAHSİN KAHRAMAN CAD. GERSAN SANAYİ SİTESİ</small> <small>SASTEK NO:82 YENİMAHALLE Ankara / Türkiye</small>	<small>Phone</small> : +90 312 385 3534 <small>Fax</small> : - <small>Email</small> : nurdan@sastek.com.tr <small>Website</small> :
Heat Meters	Cold Test	TS EN 1434-4 Article 7.6 OIML R75-2:2002 Article 6.6 2004/22/AT MI004 2014/32/AB Annex 6 MI004
Heat Meters	Damp Heat, Cyclic Test(Condensing)	TS EN 1434-4:2015 Article 7.9 OIML R75-2:2002 Article 6.9 2004/22/AT MI004 2014/32/AB Annex6 MI004
Heat Meters	Determination of Indication errors test	TS EN 1434-5 Article 6
Water Meters	Water Temperature Test	EN ISO 4064-2:2017 Article 7.5 OIML 49-2:2013 Article 7.5 2004/22/AT MI-001 2014/32/AB Annex 3 MI-001 EN 14154-3:2005 Article 5.6 75/33/AT Cold Water Meters
Water Meters	Durability - Discontinuous flow test	ISO 4064-2 Article 7.11 OIML R 49-1 Article 7.11 TS EN 14154-3+A2 Article 5.13

false

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.



 TÜRKAK <small>Test TS EN ISO/IEC 17025 AB-1028-T</small>	SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ Accreditation Nr: AB-1028-T Revision Nr: 06 Date: 08.02.2023
---	---

Electrical,Electronic and IT Products and Devices		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Final Product	Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (GWEPT)	TS EN 60695-2-11 EN 60695-2-11 IEC 60695-2-11
Household and similar electrical appliances	Household and similar electrical appliances – Safety - Part 1: General requirements -Protection against accessing live parts -Input power and current -Leakage current and electrical resistance at operating temperature -Moisture resistance -Leakage current and electrical resistance -Mechanical strength - Heat and fire resistance -Annex A (For Information) Routine Experiments	TS EN 60335-1 EN 60335-1 IEC 60335-1 Article 8 Article 10 Article 13 Article 15 Article 16 Article 21 Article 30.2.1 Article 30.2.2 Article 30.2.3
Electricity metering equipment	Test of multi-phase meters loaded with only one phase	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Power consumption test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Error limits test due to current change	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	External magnetic induction test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	External permanent magnetic induction test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Unbalanced voltage test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46

false

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.





SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ

Accreditation Nr: AB-1028-T
Revision Nr: 06 Date: 08.02.2023

Electricity metering equipment	Direct component and double harmonics in an alternating current circuit test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Single harmonics in alternating current circuit test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Error limits test due to reverberated phase sequence change	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Starting current test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	AC voltage test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Voltage dips and short interruptions test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Start-up test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Idle run test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Impulse voltage test between circuits	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Error limits test due to voltage change	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Error limits test due to harmonic variation	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46

false

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.





SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ

Accreditation Nr: AB-1028-T
Revision Nr: 06 Date: 08.02.2023

Electricity metering equipment	Heating effect test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Sub harmonics test in alternating current circuit	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Impulse voltage test of electrical circuits relative to earth	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Verification test of meter coefficient	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Ambient temperature influence test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Test of the effect of the short-term overcurrent	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Test of the effect of self-heating	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	DC component test in the current circuit	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Test of grid provided time switch	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Testing of auxiliary devices	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Three-degree inclined hanging test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46

false

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.





SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ

Accreditation Nr: AB-1028-T
Revision Nr: 06 Date: 08.02.2023

Electricity metering equipment	Auxiliary voltage test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Immunity test against earthing fault	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Mechanical and electrical characteristics test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Optical characteristics test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Terminal blocks mechanical endurance test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Mechanical load test of single speed or different speed recorder	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Cold with slow temperature change for non-heat-dissipating test specimen used in electrotechnical	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Damp heat test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Electricity meter solar radiation test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Spring-operated impact hammer test used in electronics	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Electric meter bump test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46

false

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





SASTEK UYGUNLUK DEĞERLENDİRME HİZMETLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ

Accreditation Nr: AB-1028-T
Revision Nr: 06 Date: 08.02.2023

Electricity metering equipment	Glow (incandescent) wire test used in electronics	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Electric meter vibration test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Dry temperature test with slow temperature change for the non-heat test specimen	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Electricity metering equipment	Electric meter dust and water penetration protection test	EN 62053-23 EN 62053-22 EN 62053-21 EN 50470 OIML R46
Final Product	Test B: Dry heat	TS EN 60068-2-2 EN 60068-2-2
Final Product	Tests A: Cold	TS EN 60068-2-1 EN 60068-2-1
Final Product	Test Eh: Hammer tests	TS EN 60068-2-75 EN 60068-2-75
Final Product	Degrees of protection provided by enclosures (IP code) (For electrical equipments) tests	TS 3033 EN 60529 EN 60529/A1
Final Product	Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering	TS EN 60068-2-5 EN 60068-2-5
Final Product	Tests Fc: Vibration (sinusoidal)	TS EN 60068-2-6 EN 60068-2-6
Final Product	Test Db: Damp heat, cyclic (12 h + 12 h cycle)	TS EN 60068-2-30 EN 60068-2-30
Final Product	Test Cab: Damp heat, steady state	TS EN 60068-2-78 EN 60068-2-78
Final Product	Test Ea and guidance: Shock	TS EN 60068-2-27 EN 60068-2-27

false

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

