

KT Series

**DN15-20
80-190 mm**



METROLOGICAL SPECIFICATIONS

MODEL NAME			KT9	KT11	KT10		KT12		KT13	KT14	KT15	KT16	KT17	KT18		
Nominal Diameter	DN	mm	15		15			20			20					
Meter Length	L	mm	80	110	80		110		110	130	190	110	130	190		
Permanent Flowrate	Q3	m³/h	1,6		2,5			2,5			4					
Maximum Flowrate	Q4	m³/h	2		3,125			3,125			5					
Measuring Range Ratio	Horizontal Connection	H	80	100	80	100	160	80	100	160	80	100	160			
Transitional Flowrate			0,0320	0,0256	0,0500	0,0400	0,0250	0,0500	0,0400	0,0250	0,08	0,064	0,04			
Minimum Flowrate			0,0200	0,0160	0,0313	0,0250	0,0156	0,0313	0,0250	0,0156	0,05	0,04	0,025			
Measuring Range Ratio	Vertical Connection	V	40	50	40		50		40		50		40		50	
Transitional Flowrate			0,0640	0,0512	0,1000		0,0800		0,1000		0,0800		0,1600		0,1280	
Minimum Flowrate			0,0400	0,0320	0,0625		0,0500		0,0625		0,0500		0,1000		0,0800	
Temperature Class			T30 T50 T70 T90 T30/90													
Transitional Flowrate Ratio	-	-	1,6													
Pressure Drop		bar	0,63													
Maximum Working Pressure		bar	16													
Registration Capacity		m³	99999													
Minimum Reading Resolution		lt	0,05													



Specifications

- Easy Setup Plug&Use
- Wired Mbus Protocol EN13757-4
- Flow direction detection
- Reassembling detection
- 18 month information storage
- Changable billing date
- Low battery warning
- 10 year battery life

Protection Class	IP 54
Power Supply	3.6V Lityum Tynoil
Battery Life	>10 year
Communication Distance	800m
Working Temperature	-20 / 70 °C
Encrypting	AES 128 - bit
RF Frequency	-
M-bus Standart	EN 13757-4
M-bus Mode	S , T , C



TÜRK AKREDİTASYON KURUMU

AKREDİTASYON SERTİFİKASI

Deney Laboratuvarı olarak faaliyet gösteren,

YAVUZ METAL SANAYİ VE TİCARET A.Ş.

Organize Sanayi Bölgesi 2. Cd. No:4 Arslan 61190 TRABZON / TÜRKİYE

TÜRKAK tarafından yapılan denetim sonucunda TS EN ISO/IEC 17025:2012 Standardına göre Ek'te yer alan kapsamlarda akredite edilmiştir.

Akreditasyon No : AB-1108-T

Akreditasyon Tarihi : 28 Aralık 2016

Revizyon Tarihi / No : 6 Ağustos 2018 / 01

Bu Sertifika, yukarıda açık adı ve adresi yazılı Kuruluşun TS EN ISO/IEC 17025:2012 Standardına, ilgili Yönetmelik ve Tebliğlere uygunluğunu sürdürmesi halinde, 27 Aralık 2020 tarihine kadar geçerlidir.



Dr. H. İbrahim ÇETİN
Genel Sekreter

Türk Akreditasyon Kurumu (TÜRKAK) ISO/IEC 17025 alanında Avrupa Akreditasyon Birliği (EA) ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile çok taraflı anlaşma (MLA/MRA) imzalamıştır.



EU - TYPE EXAMINATION CERTIFICATE



No. SK 17 - 115 MI-001 Rev. 1

This revision replaces all previous versions of this Certificate in full wording

Issued by **Slovenská legálna metrológia, n. o.** Notified Body number **1432**
Hviezdoslavova 31
974 01 Banská Bystrica
Slovak Republic

In accordance with Annex II, Module B to Government Ordinance of the Slovak Republic No 145/2016 Coll. relating to the making available on the market of measuring instruments, which implements, in Slovakia, the Directive 2014/32/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of measuring instruments as later amended (MID).

Applicable essential requirements Annex I and Annex III to MID

Manufacturer **YAVUZ METAL SANAYİ VE TİCARET ANONİM ŞİRKETİ**
Organize Sanayi Bolgesi 2.Cadde No:4,
Arsin / TRABZON, Turkey

Applicant **Manufacturer**

Measuring instrument **Water meter**

Type	KDM...
Trade mark	CEM
Environment classes	
- climatic	(-10 to +55) °C
- mechanical	M1
- electromagnetic	E1

Description and documentation The principal technical and metrological data, characteristics, instrument description and approval conditions are set out in the Descriptive annex to this EU - type examination certificate (25 pages), which is part of this EU - type examination certificate. The test reports, designs, schematic diagrams and documentation used during certification process are recorded under reference folder YAVUZ_KDM_00 to 01.

Valid until **12 January 2027**

Date of issue **4 February 2021**



Ing. Štefan Král, PhD.
Representative of Notified Body



Where the instrument is subject to other Directives covering other aspects, this EU - type examination certificate is valid, assuming that the instrument conforms to the provisions of those Directives. Without written permission of the notified body this certificate may be reproduced only as a whole.



GARANTİ ŞARTLARI

- 1) Garanti süresi, malın teslim tarihinden itibaren başlar ve 2 yıldır.
- 2) Malın bütün parçaları dahil olmak üzere tamamı garanti kapsamındadır.
- 3) Malın ayıplı olduğunun anlaşılması durumunda tüketici, 6502 sayılı Tüketicinin Korunması Hakkında 11 nci maddede yer alan
a- Sözleşmeden cayma,
b- Satış bedelinden indirim isteme,
c- Ücretsiz onarılmasını isteme,
d- Satılanın ayıpsız bir misli ile değiştirilmesini isteme
haklarından birini kullanabilir.
- 4) Tüketicinin bu haklardan ücretsiz onarım hakkını seçmesi durumunda satıcı, işçilik masrafı, değiştirilen parça bedeli ya da başka herhangi bir ad altında hiçbir ücret talep etmeksizin malın onarımını yapmak veya yaptırmakla yükümlüdür. Tüketici ücretsiz onarım hakkını üretici veya ithalatçıya karşıda kullanabilir. Satıcı, üretici ve ithalatçı tüketicinin bu hakkını kullanmasından müteselsilen sorumludur.
- 5) Tüketicinin, ücretsiz onarım hakkını kullanması halinde malın;
- Garanti süresi içinde tekrar arızalanması
- Tamiri için gereken azami sürenin aşılması,
- Tamiirin mümkün olmadığının, yetkili servis istasyonu, satıcı, üretici veya ithalatçı tarafından bir raporda belirlenmesi durumlarında; tüketici malın bedel iadesini, ayıp oranında bedel indirimini veya imkan varsa malın ayıpsız misli ile değiştirilmesini satıcıdan talep edebilir. Satıcı, tüketicinin talebini reddedemez. Bu talebin yerine getirilmemesi durumunda satıcı, üretici ve ithalatçı müteselsilen sorumludur.
- 6) Malın tamir süresi 20 iş gününü geçemez. Bu süre, garanti süresi içerisinde mala ilişkin arızanın yetkili servis istasyonuna veya satıcıya bildirim tarihinden itibaren, garanti süresi dışında ise malın yetkili servis istasyonuna teslim tarihinden itibaren başlar. Malın arızasının 20 iş günü içerisinde giderilememesi halinde, üretici veya ithalatçı; malın tamiri tamamlanıncaya kadar, benzer özelliklere sahip başka bir malı tüketicinin kullanımına tahsis etmek zorundadır. Malın garanti süresi içerisinde arızalanması durumunda, tamirde geçen süre garanti süresine eklenir.
- 7) Malın kullanma klavuzunda yer alan hususlara aykırı kullanılmasından kaynaklanan arızalar garanti kapsamı dışındadır.
- 8) Tüketici, garantiden doğan hakların kullanılması ile ilgili olarak çıkabilecek uyuşmazlıklara yerleşim yerinin bulunduğu veya tüketici işleminin yapıldığı yerdeki Tüketici Hakem Heyetine veya Tüketici Mahkemesine başvurabilir.
- 9) Satıcı tarafından bu Garanti Belgesinin verilmemesi durumunda, tüketici Ticaret Bakanlığı'na bağlı Tüketicinin Korunması ve Piyasa Gözetimi Genel Müdürlüğüne başvurabilir.

Üretici Firma

Ünvanı : Yavuz Metal Sanayi ve Ticaret A.Ş.

Adres: Arsin Organize Sanayi Bölgesi 2.Cadde No:4
Arsin/TRABZON

Firma Yetkilisi :



E-posta : info@cemsusayaclari.com

Telefon : (462) 711 20 33/34

Fax : (462) 711 20 35

Malın

Markası : CEM
Cinsi : Su Sayacı
Modeli : KDM5
Garanti Süresi : 2 yıl
Azami Tamir Süresi : 20 iş günü

Satıcı Firma

Ünvanı :

Adres:

Telefon :

Fax :

E-posta :

Firma Yetkilisi :

Kaşe / İmza

Fatura Tarihi :

Fatura No :

Yukandaki bilgilerin ürün teslimi esnasında satıcı tarafından doldurulması zorunludur.

Bu belgenin kullanılmasına 4077 sayılı Tüketicinin Korunması Hakkında Kanun ve bu kanuna dayanılarak yürürlüğe konulan Garanti Belgesi Uygulama Esaslarına Dair Yönetmelik uyarınca, T.C. Gümrük ve Ticaret Bakanlığı Tüketicinin Korunması ve Piyasa Gözetimi Genel Müdürlüğü tarafından izin verilmiştir.



CERTIFICATE

This certificate is granted to the organization,

YAVUZ METAL SANAYİ VE TİCARET ANONİM ŞİRKETİ

Yeşilyalı Mahallesi Organize Sanayi 2 Nolu Cadde No:4
Arsin / Trabzon / Türkiye

**WATER METERS AND HEAT METERS, REMOTE READING AND
PREPAYMENT CARD WATER AND HEAT METERS, ELECTRONIC
COMMUNICATION WATER AND HEAT METERS, ARMATURES USED IN
SANITARY INSTALLATION, VALVES, FITTINGS, DESIGN OF THEIR TEST
EQUIPMENT, TEST PROCEDURES, PRODUCTION, MARKETING AND SALES
ACTIVITIES**

EA 17, 18, 19

according to the scope,

ISO 9001:2015

to certify that Quality Management System in accordance with standard's clauses
is established and being implemented.

First Date of Issue : 04.11.2020
Date of Issue : 04.11.2020
Certificate Period : 3 Years
Reissue Due Date : 03.11.2021
Certificate No : 01.20.6830.114552.D

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System Certificate Approved
Maltepe / İstanbul / Türkiye



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Yeşilyalı Mahallesi Organize Sanayi 2 Nolu Cadde No:4
Arsin / Trabzon / Türkiye

**WATER METERS AND HEAT METERS, REMOTE READING AND
PREPAYMENT CARD WATER AND HEAT METERS, ELECTRONIC
COMMUNICATION WATER AND HEAT METERS, ARMATURES USED IN
SANITARY INSTALLATION, VALVES, FITTINGS, DESIGN OF THEIR TEST
EQUIPMENT, TEST PROCEDURES, PRODUCTION, MARKETING AND SALES
ACTIVITIES**

EA 17, 18, 19

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ISO 14001:2015

to certify that Enviromental Management System in accordance with standard's
clauses is established and being implemented.

First Date of Issue : 04.11.2020
Date of Issue : 04.11.2020
Certificate Period : 3 Years
Reissue Due Date : 03.11.2021
Certificate No : 02.20.6830.7641.D

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YAVUZ METAL SANAYİ VE TİCARET ANONİM ŞİRKETİ

Yeşilyalı Mahallesi Organize Sanayi 2 Nolu Cadde No:4 Arsin / Trabzon / Türkiye

WATER METERS AND HEAT METERS, REMOTE READING AND PREPAYMENT CARD WATER AND HEAT METERS, ELECTRONIC COMMUNICATION WATER AND HEAT METERS, ARMATURES USED IN SANITARY INSTALLATION, VALVES, FITTINGS, DESIGN OF THEIR TEST EQUIPMENT, TEST PROCEDURES, PRODUCTION, MARKETING AND SALES ACTIVITIES

Statement of Applicability 21.07.2020

A

according to the scope,

ISO/IEC 27001:2013

To certify that Information Security Management in accordance with standard's clauses is established and being implemented.

First Date of Issue : 04.11.2020
 Date of Issue : 04.11.2020
 Certificate Period : 3 Years
 Reissue Due Date : 03.11.2021
 Certificate No : 15.20.6830.15221.D

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Yeşilyalı Mahallesi Organize Sanayi 2 Nolu Cadde No:4
Arsin / Trabzon / Türkiye

**WATER METERS AND HEAT METERS, REMOTE READING AND
PREPAYMENT CARD WATER AND HEAT METERS, ELECTRONIC
COMMUNICATION WATER AND HEAT METERS, ARMATURES USED IN
SANITARY INSTALLATION, VALVES, FITTINGS, DESIGN OF THEIR TEST
EQUIPMENT, TEST PROCEDURES, PRODUCTION, MARKETING AND SALES
ACTIVITIES**

according to the scope,

ISO 45001:2018

to certify that Occupational Health and Safety System in accordance
with standard's clauses is established and being implemented.

First Date of Issue : 04.11.2020
Date of Issue : 04.11.2020
Certificate Period : 3 Years
Reissue Due Date : 03.11.2021
Certificate No : 03.20.6830.0265


First Quality Certification
System Certificate Approved
İstanbul, 2020.11.04





YAVUZ METAL

SANAYİ VE TİCARET AŞ

USER MANUAL

Document No : KT-UM-01

KT SERIES

MECHANICAL WATER METERS

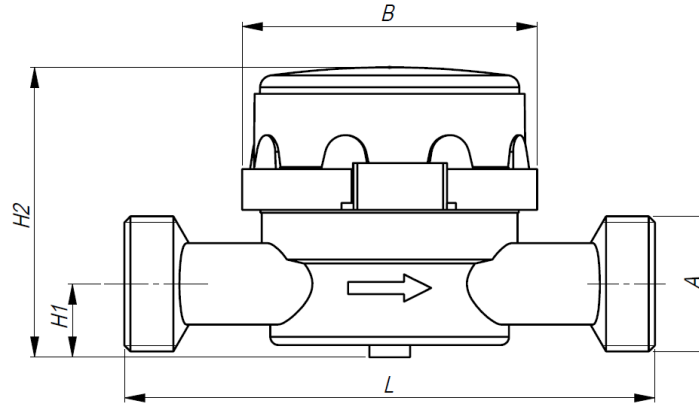
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1. Technical and Metrological Specifications

Model Name			KT11		KT12		KT13		KT14		KT15		KT16		KT17		KT18	
Nominal Diameter	DN	mm	DN15		DN15		DN20		DN20		DN20		DN20		DN20		DN20	
Permanent Flowrate	Q3	m³/h	1,6		2,5		2,5		2,5		2,5		4		4		4	
Maximum Flowrate	Q4	m³/h	2		3,125		3,125		3,125		3,125		5		5		5	
Ration Q3 / Q1	R...	-	80 100	40 50	80 100 160	40 50	80 100 160	40 50	80 100 160	40 50	80 100 160	40 50	80 100 160	40 50	80 100 160	40 50	80 100 160	40 50
Transitional Flowrate	Q2	m³/h	0,032 0,0256	0,064 0,0512	0,05 0,04 0,025	0,1 0,08	0,05 0,04 0,025	0,1 0,08	0,05 0,04 0,025	0,1 0,08	0,05 0,04 0,025	0,1 0,08	0,08 0,064 0,04	0,016 0,128	0,08 0,064 0,04	0,016 0,128	0,08 0,064 0,04	0,016 0,128
Minimum Flowrate	Q1	m³/h	0,02 0,016	0,04 0,032	0,0312 0,025 0,0156	0,0625 0,05	0,0312 0,025 0,0156	0,0625 0,05	0,0312 0,025 0,0156	0,0625 0,05	0,0312 0,025 0,0156	0,0625 0,05	0,05 0,04 0,025	0,1 0,08	0,05 0,04 0,025	0,1 0,08	0,05 0,04 0,025	0,1 0,08
Installation Orientation			H	V	H	V	H	V	H	V	H	V	H	V	H	V	H	V
Ration Q2 / Q1	-	-	1,6															
Connection Thread	-	-	G 3/4 B				G 1 B											
Construction	L	mm	110		110		110		130		190		110		130		190	
Water Temperrature Range	-	-	0,1 to 90															
Temperature Classe	-	-	T30, T50, T70, T90, T30/90															
Maximum Working Pressure		bar	16															
Pressure LossΔP		bar	0,63															
Max. permissible error in upper flow rates Q2 ≤ Q ≤ Q4		%	± 2 (at 0 ≤ 30 °C) ± 3 (at 0 > 30 °C)															
Max. permissible error in lower flow rates Q1 ≤ Q ≤ Q2		%	± 5															
Scala interval		m³	0,00005															
Capacity of Calculator		m³	99999															
Mechanical Class		-	M1															
Climatic Class		°C	-10 °C to +55 °C															
Electromagnetic Environment Class		-	E1															
Installation Conditions		-	U0 D0															

2. Dimension



Model Name			KT11	KT12	KT13	KT14	KT15	KT16	KT17	KT18
Nominal Diameter	DN		DN15	DN15	DN20	DN20	DN20	DN20	DN20	DN20
Meter height	L	mm	110	110	110	130	190	110	130	190
Fitting dimensions of screw connection	A	-	G 3/4 B	G 3/4 B	G 1 B	G 1 B	G 1 B	G 1 B	G 1 B	G 1 B
Axis height	H1	mm	18	18	18	18	18	18	18	18
Total height	H2	mm	71	71	71	71	71	71	71	71
Width	B	mm	70	70	70	70	70	70	70	70

3. Photo (Sample)



KT Type1



KT Type2



KT Type3

4. Description and Installation Instruction

4.1 Description

- KT series water meters have been produced according to the harmonized standards and / or normative documents applicable to the EN 14154, ISO 4064, OIML R49: 2006 or 2013 meters.
- Measuring type of water meter is Single jet
- The register group has a capacity of 99999 m³ and is vacuumed.
- Water counter, must protect against magnetic effects.
- Water meter can optionally be equipped with a non-return valve.
- The meter can only be used for forward flow and is resistant to backflow.
- The water meter can optionally be equipped with equipment that can communicate with electronic devices (RF, M-BUS, Pulse Output, etc.).
- The installation position of the water meter should be horizontal (H) and vertical (V).
- Flow profile sensitivity class : U0D0

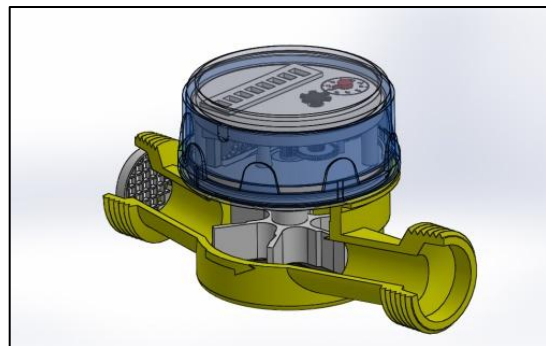
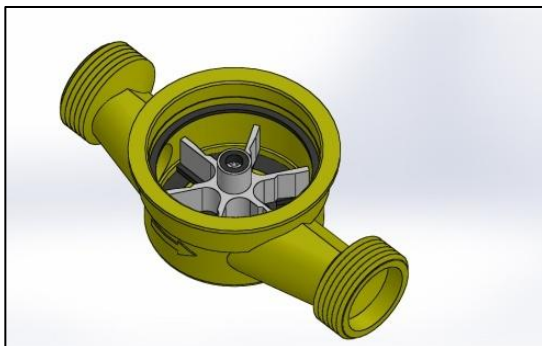
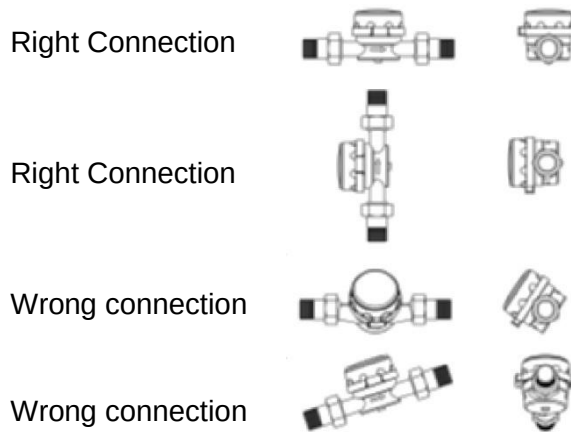
4.2 Installation Instruction

- Meter space is found, the counter should be a place to protect it against external atmospheric influences.
- Installation of possible mortar, iron filings, flax fiber and paint residues such as counter will adversely affect foreign substances must be removed from the equipment.
- With the help of the arrow mark on the water flow direction must be determined in the installation must be connected correctly to the meter installation.
- The arrows indicate the direction of water flow meter on the meter. Counter 2 nipples, 2 end and is connected to the installation with the help of 2 seals.
- Pipe diameters used for installation counter nominal diameter (DN) should be equal.
- Connecting the meter installation must be made by one skilled in the following scheme.

- Counter your absolutely horizontal when viewed from the top will not interfere with the reading and must be parallel to the line of the input-output ends.

5. Working system

- Water meter, with the speed of the water that runs through the rotating propeller.
- The propeller starts spinning with water speed and the rotation transmission mechanism for moving the magnet on the register.
- The tip of the propeller and the magnets inside registration mechanism will magnetically coupling with each other.
- With this rotation through the gears in motion to the recording mechanism converts cubic meters and cubic hang coats.
- User can view consumption referring to the meter display. Register mechanism, vacuum dust and protection against humidity.
- Register mechanism is protected against magnetic effects.



The Recording Mechanism can rotate 359 degrees around the axis.

6. Notices Considerations During Use

If the pump is used to pump meter installation it must be connected to at least 2 meters away.

During transportation and shipping will affect the meter's settings and calibration (shock, shaking, etc. effects) should be avoided in handling and shipping method.

7. Repair and Maintenance

Maintenance and repairs are carried out by people with authorization by the Ministry of Customs and Trade. Users should not interfere with the purpose of repairs and maintenance meter.

8. Terms of Guarantee

1. The warranty period starts from the date of delivery and for 2 years.
2. It is all under warranty, including all parts of the goods.
3. If it is understood that it is defective consumer goods, the Law No. 6502 on Consumer Protection Situated in Article 11;
 - return from the contract,
 - want to discount the sales price,
 - ask the free repair,
 - the sale of a non-defective want to change with the times, you can use one of the rights.
4. Consumer vendors have chosen the right to free repair of such rights; labor costs, the cost of replacement parts or make a repair of the goods without any fee or is obliged to make under any other name. Consumers can use against the right to free repair to the manufacturer or importer. Dealers, manufacturers and importers are jointly responsible consumers from exercising such right.
5. Consumers have the right to free use of the property in case of repair;
 - Failure during the warranty period again.
 - Exceeding the maximum period for repair.
 - That repair is not possible, the authorized service station, dealer or manufacturer to determine the status of a report by the importer.

Consumer goods refund, if any shame or allow the rate of cost reductions can be replaced with the times demand from the non-defective goods seller. The seller cannot refuse to consumer demand. Failure to fulfil this demand vendors, manufacturers and importers are responsible jointly and severally.

6. The repair time cannot exceed 20 business days. This time, on the warranty period within the authorized service station or retailer notification failure for goods outside the warranty period, the case cannot be resolved within 10 working days of başlar.mal fault from the date of delivery of the goods authorized service station, the manufacturer or importer; the goods until completion of the repair, another property with similar characteristics have to be allocated to the consumer. In case of defects within the warranty period, it added to the warranty period repair.
7. Located on the property is outside the user manual defects resulting from the use contrary to the matters covered by the warranty.
8. Consumers can apply for a guarantee of the rights found in the settlement of disputes that may arise regarding the use of the consumer or consumer transactions in the place where the arbitral tribunal or the Consumer Court.
9. Seller is not given by this Warranty Card, consumers Customs and Trade Ministry of Consumer Protection and Market Surveillance Directorate General may apply.

9. Warranty Outside Conditions

1. faults occurring in the external atmospheric conditions protect you from the negative effects counter (freezing effects of mechanical shock, rain, mud, etc.).
2. failure will occur as a result of the poor quality of the impurities and water supplies.
3. failure will occur in the measurement results of the external liquid water.
4. Located in the manual counter is out of warranty failures resulting from the use contrary to the matters.
5. Seal is out of warranty and broken water meters.

10. Periodic Inspection

1. Periodic inspection of water meters are made every 10 years unless necessary.
2. Periodic inspection can only be carried out by authorized bodies.
3. Regarding periodic inspection, we refer to the MEASUREMENT AND MEASUREMENT INSTRUMENTS IN THE Official Gazette of the Republic of Turkey dated 24.07.1994 and numbered 22000.