

















ERCIYES Serie (DN25, DN32, DN40, DN50) **Composite Polyamide / Plastic** Multi-Jet Dry Dial Water Meter for Cold Water











Main Characteristics:

Approved in accordance with MID Multi - Jet dry dial register type with vane-wheel Composite polyamide / strong plastic housing material Durable internal removable strainer Removable measuring mechanism Metrological range -horizontal- R80 (Class B) Horizontal installation Magnetic transmission

Register cap made of composite polyamide / strong plastic High resistance to water impurities Hermetically sealed register (IP68)

Available for optical direct reading

Black or Blue colour

Water temperature up to 50°C

(QR) Code to send data for viewing - optional

Equipable with Pulse output, MBus (Wire, Wireless), RF

Spare parts and service available for 10 years

2 years of guarantee

Available options: W slofox Laranna











The meter could be pre-equipped for future integration of remote reading devices such as MBus wire, MBus wireless OMS, Non-magnetic pulse output, AMR and upon request LoRa, LoRaWAN, Sigfox

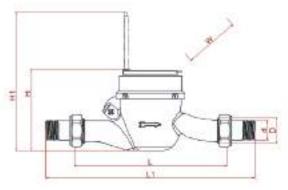
Approvals:

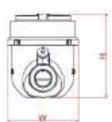
EC type-examination certificate in conformity with

- · 2014/32/EU (MID) MI-001 Water Meter
- OIML R49-1:2006
- EN 14154:2005+A2
- ISO 4064:2015
- EC Type Examination Certificate (TCM 142 / 14 5171)
- The Quality Assurance of Production Process (Module D)
- · ISO 9001:2015
- · ISO 14001:2015
- ISO 45001:2018
- ISO 27001:2013

Applications:

For the consumption measuring of cold potable water up to 50° C. Working pressure 16 bar (PN16), min. static pressure test 25 bar for 15 mins., 32 bar for 1 mins. Its reliability, resistance to bad water quality and noiseless operation will satisfy both end users and network managers. Meter also keeps its metrological accurancy for many years of operation, even in very difficult working conditions.





	Nominal Daimeter	Dn	mm	25	32	40	50
		Size	Inch	1"	1¼″	1%"	2"
	Overall Lenght Without Connectors	L	mm	230	230	250	300
	Overall Lenght With Connectors	L1	mm	346	354	375	475
	Thread Meter GxB	D	Inch	1¼"	1½~	2"	21/2"
/ Weight	Thread Connector	d	Inch	1"	1¼"	1½″	2"
We	Total Height	Н	mm	115	119	153	153,5
	Total Height (With Lid)	H1	mm	204	210	263	260
Dimension	Width Approx	W	mm	103	103	123	124
E E	Weight Approx	*	kg	0,70	0,77	1,22	1,50
	Package Without Connectors	*	kg	0,80	0,87	1,32	1,61
	Package With Connectors	*	kg	0,96	1,07	1,60	2,135
	Box Dimension (1 unite)	*	cm	27x14x11		31x17x14	
	Package Dimension (10 unite)	*	cm	57x28x15		44x33x20	
	Quantity Per Package	*	unite	5		3	

reading: EN ISO 228-1: 2003





















Marking:

The manufacturer's trade mark, Nominal flow rate (Q3), Metrological ratio (R), Nominal size of the meter, Maximum working pressure (MAP), Pressure head loss class (ΔP), Type of the meter (Model), EC-type examination certificate number, Year of manufacturing, Mounting position, Maximum water temperature (T), CE marking, Metrology marking, Notified body number from D and F module, Volume unite of the index (m3) according to the MID 2014/32/EU directive on measuring instruments are printed on the dial.

Optional customized meter marking purchaser's logo or tender number, or QR code, serial number.

Markings which are clearly visible, readable and of permanent and non-deleteable nature may vary depending on particular markets or metrological specifications.



Installation and Operating Instruction:

Meter must be installed in a low point of the pipeline with the arrow cast on the body showing direction of the water flow. All pipework must be flushed out to remove all impurities before fitting the water meter. An upstream stop valve or ball valve is recommended to allow installation and removal of the water meter. When connecting the meter with the meter network, the upstream stop valve or ball valve must be opened slowly so that the meter fills the meter as smoothly as possible. No special maintenance is required.







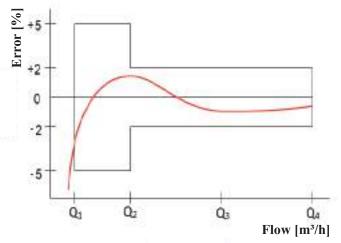


Pulse Emitter Device:

Water meter could be equipped with pulse emitter device which is a removable bonnet for quick and easy maintance without damaging or removing the metrological seals of the meter. The meter can be linked to tele-reading systems, to PLC, to M-Bus networks using singal converter, to pulse counter and all those applications that require remote reading of the water consumption data.

Water meters could be equipped with a pulse emitter with protection class (IP68) 1,20 meter length of pre-mounted wire cables, Erciyes (P) retrofittable with reed pulser:100/1000 (Standard: optional: 100 1 /pulse.optional:1000 1/pulse) or pre-equipped for the future installation of the pulse emitter. Note: The register protective cover of water meter with pulse emitter device will be high-quality UV-resistant and made of polycarbonate (PC) transparent material instead of mineral glass.

Typical Accuracy Curve:

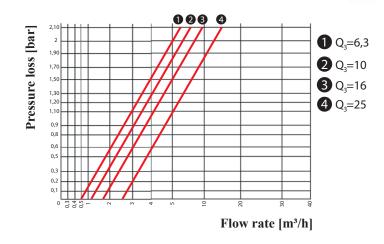


 Q_1 = Minimum Flowrate

 $Q_{,=}$ Transitional Flowrate $Q_{,=}$ Overload Flowrate

Q₃= Permanent Flowrate

Typical Head Loss Curve:





















Tampering Protection and Sealing (Optional):

• Anti-Tampering butterfly seal for water meter

Pented butterfly seal consists mainly of three parts: transparent body, colored butterfly inner part and stainless steel sealing wire. Transparent body is made of polycarbonate (PC) material, colorful butterfly inner part is made of polyoximethylene (POM) which can not be removed without breaking from mounted inside. The inner part mounted inside the cylindrical body shall be non-reversible and unidirectional. Sealing wire made of AISI304 stainless steel are produced by twisting 7 pieces of \emptyset 0.23mm wire on top of each other. The butterfly seal can be used once aganist tempering in water meters. Optional: Laser printed serial number and company logo could be added on the body based on quantity.

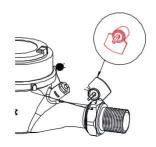
• Anti-Tampering plastic seal for water meter connectors

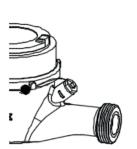
Plastic seal consists of two equal parts. They are made of polycarbonate (PC) material which has non-flammable, chemicals, salts, weather and ultra-violet resistant. Thickness is min.2,00 mm and not easily deform and it can not opened without breaking. There are holes on the locking mechanism suitable for the passage of the sealing wire after locking.

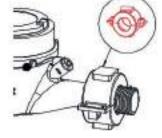
The materials to be used of both seals are recyclable, and the contents are not contain harmful substances to human health and environment.

Meter Seals

The meter is sealed by sealing materials which are stainless steel wire 1.00 mm thickness optional (covered with plastic) and aluminium seal.







Stainless Steel Seal

Metrological Data	Nominal Daimeter (DN)	DN	mm	25	32	40	50	
		Size	Inch	1"	11/4"	1½″	2"	
	Maximum Flow Rate (m³/h)	Q4		≤7.88	≤12.5	≤20.0	≤31.3	
	Nominal Flow Rate (m³/h)	Q3		≤6.30	≤10.0	≤16.0	≤25.0	
gical	Transitional Flow Rate (I/h) Tolerance ±2%	Q2		≤0.126	≤0.200	≤0.320	≤0.500	
olo.	Minimum Flow Rate (I/h) Tolerance ±5%	Q:	1	≥0.0788	≥0.125	≥0.200	≥0.313	
Meti	Measuring Range - Horizantal (R-Class)	Q3 /	Q1	≤80 H (Class B)				
	Measuring Transitional Flow Rate	Q2 / Q1		1.6				
	Measuring Maximum Flow Rate	Q4 /Q3		1.25				
	Accuracy Class			2				
	Maximum Permissible Error Fort The Lower Flow Rate Zone	(MP	E1)	±5%				
	Maximum Permissible Error Fort The Upper Flow Rate Zone	(MP	Eu)	±2 % for water having a temperature ≤30 °C ±3 % for water having a temperature >30 °C				
	Temperature Class	Т°	,C	T30 and T50				
E .	Water Pressure Classes	MAP ((Bar)	16				
I Dai	Pressure - Loss Classes	ΔP(I	Bar)		0,63			
Technical Data	Max. Indicating Range	[m	3]	99	99 999		999 999	
Tech	Resolution Of The Indicating Device	[litr	re]		0,05			
	Instalation Positions			н				
	Flow Profile Sensitivity Classes			U0 D0		D0		
	Impulse Value	litre/p	oulse	100,1000				
	ModuleType (Optional)			Pulse, MBus (Wired, Wireless), RF, AMR				

Third Party Inspection Company (Optional)

Third Party Inspection company (Bureau Veritas, SGS, Intertek) can be attended and witness to the needed tests in order to ensure 100% complete matching between the product and what is required in tender or contract documents in terms of standards, specifications and conditions.

Third Party Inspection report could be provided to the purchaser with results of all tests performed including visual, quality, quantity, packing, marking, loading control and witnessing to hydrostatic tests, error of indication tests during the inspection before each shipment.









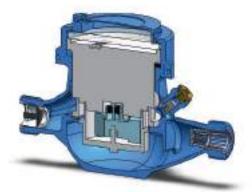












Legiblity & Reliability:

• Register / Counter

The register is direct straight reading type and consists of five (5) digits numeric rolls for m³ for DN25 and DN32 (6 digits numeric rolls for m³ for DN40 and DN50) and four (4) pointers circular for litres to ensure perfect readability. The lowest resolution is 0,05 litres. The dial has a central disc (black or red) whose rotation indicates the passage of water. This indicator can be used to reveal a downstream leak. The register is also suitable for test on an electronic test bench.

The register is extra-dry dial and hermatically sealed (IP68) with magnetic transmission. It registers in cubic meter units and protected by a resistant lid. The pivot of impeller chamber, turbine which is supported by a sapphire and rested on a stainless steel shaft are made to guarantee aganist any corrosion or damage. Suitable for pre-equipped or equipped for the comminication

• Meter Body / Housing

The body/housing of the water meter, threaded type, make of composite polyamide / strong plastic (injection molding). A visible arrow on both sides of the body shows the direction of water flow.

• Register Ring (Cap)

Register Ring (Cap) make of composite polyamide / strong plastic (injection molding)
The material can be accessible or removable in order to maintain the internal parts of the meter.
Manufacturer's meter serial number are engraved on the register ring (Cap) covering the meter.

• Register Protective Cover (Glass) and Register Cover (Lid)

The register protective cover is made of sturdy mineral glass to avaid condensation or enable the reading anyway, has a thickness of min. 5 mm which prevents any mechanical tempering and scratch resistance. The magnetic transmission interface is tamper-proof (protection from external magnetic influences). The protection of register mineral glass (lid) is made of hard polymer plastic.

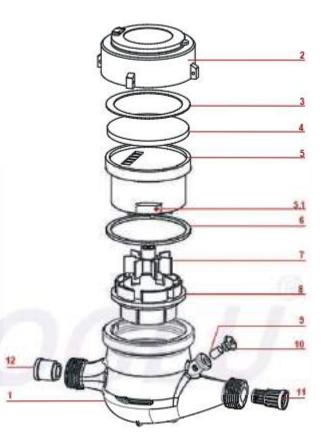
• Strainer and Non-Return Valve

Larger particles (dust,stone, etc.) in water can be filtered by a cleanable tubular, durable internal removable strainer at the flow inlet to the meter, without dismantling the meter and/or braking the seal. Durable internal non-return valve is integrated at meter body/housing at outlet-side.

• Connector For Meter

Set of connectors for water meter comes with a set of klinger-seal or EPDM rubber gaskets and one set of plastic couplings (tailpieces, nut) threaded to correct male size that are resistant to corrosion. The thread conform to ISO 228-1 standard.

	MATERIAL
1	BODY (PLASTIC)
2	LID AND REGISTER CAP (PLASTIC)
3	GASKET
4	GLASS
5	REGISTER
5.1	ANTIMAGNETIC METAL RING
6	GASKET
7	TURBINE / VANE WHEEL
8	MEASURING CHAMBER
9	ADJUSTING SCREW
10	ADJUSTING PLUG
11	STRAINER
12	NON - RETURN VALVE





Connector without hole for sealing