EUROMET

Product / Service Catalog

EUROMET

Mechanical Water Meters

Which Type of Mechanical Water Meter Should You Choose?

EUROMET Water Meters Product Family

Precision in Every Drop, Durability in All Conditions

EUROMET raises the standards in water management. Regardless of model, all our meter series are equipped with R160 (Q3/Q1) measurement accuracy and 16 bar (MAP 16) pressure resistance. Whether residential, industrial, or challenging network conditions, the EUROMET product family is sure to offer the right technology for your project.

Below is a product classification to help you choose the meter best suited to your needs.

KAYI MJD Series – Multi-Jet Dry Type (Dry)

"Clear Reading Expert." Thanks to its Dry Type vacuum-assisted display mechanism, which does not come into contact with water, the glass will not fog or sweat, even during sudden temperature changes.

- Technology: Multi-Beam, Dry Type, Magnetic Transfer.
- Advantage: The display remains 100% clear and readable at all times.
- Area of Use: Residences, building entrances, and areas with hard water where ease of reading is critical.

ABANT MJHD Series – Multi-Jet Semi-Dry

Hybrid Protection Technology combines the strengths of wet and dry types. The gear mechanism operates in water, reducing friction, while the numerator (display digits) is protected within a special fluid/reservoir.

- Technology: Multi-Jet, Semi-Dry.
- Advantages: Provides mechanical durability in sedimentary water while maintaining display readability.
- Application Area: Installations where the mains water contains particles but display clarity is desired.

AYDER MJW Series – Multi-Jet Wet Type (Wet)

"Anti-Magnetic Power": Both the measuring turbine and the display mechanism operate in water. Because it does not involve magnetic transfer, it is 100% protected against external magnetic interference.

- Technology: Multi-Jet, Wet Dial.
- Advantage: No risk of magnetic manipulation. It operates flawlessly in harsh, damp, and water-filled manholes (IP68).
- Application Area: Water-filled pits, garden wells, and areas with a high risk of leaks.

GÖKSU SJD Series – Single-Jet Dry Type

"Compact and Economical Solution": This compact design measures water hitting the turbine at a single point. Its small body allows it to fit easily into tight spaces.

- Technology: Single-Jet, Dry Type.
- Advantages: Economical and space-saving design. It maintains R160 accuracy.
- Application Area: Mass housing projects, in-apartment filter meters, and narrow installation shafts.

AYSU VRP Series – Volumetric Piston Meters

"Drop-Precision Measurement": Measures volume-based (positive displacement), not velocity-based. Captures even the lowest flow rates thanks to rotary piston technology.

- Technology: Volumetric Rotary Piston, Dry-Type Indicator.
- Advantage: Highest precision. Unaffected by mounting position; maintains R160 class accuracy even in vertical mounting.
- Application Area: Areas where water is at a premium and areas requiring vertical/inclined mounting.

HAVZA MJH Series – Hot Water Meter (T90)

"High Temperature Resistance": It has a special internal structure that can operate in water temperatures up to 90°C without deformation.

- Technology: Multi-Jet, Dry Type, T90 Class.
- Advantages: High temperature measurement stability and a fog-free display.
- Application Area: Central system hot water inlets, boiler outlets, and industrial processes.

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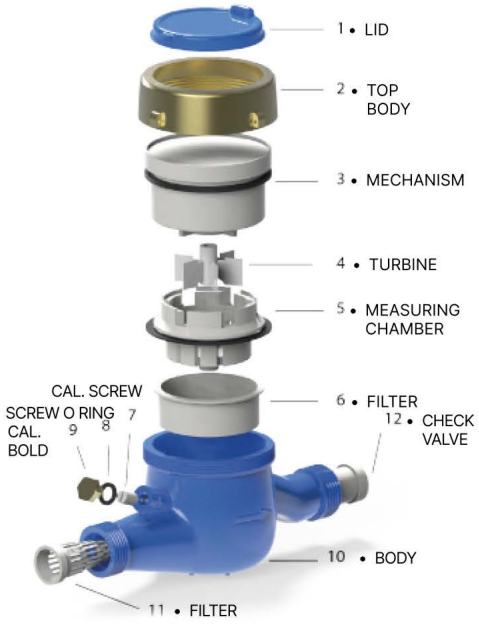
KAYI MJD-xx-AYS

Multijet Dry Type Water Meter

- **Metrological Precision & Ratio**
  - Superior Dynamic Range: Class C accuracy offering a wide measurement range with high Ratio values. **R160**
  - High Accuracy: Precise water flow measurement with minimized pressure loss design.
  - Certified Compliance: MID Approved and certified according to European standards.
- **Durability & Quality Assurance**
  - Heavy-Duty Protection: Body coated with electrostatic paint exceeding 120 microns for superior corrosion resistance.
  - **IP 68** Protection Class: Hermetically sealed structure resistant to external climate conditions and moisture.
  - Premium Materials: Manufactured using first-class materials and production technology. Available in Brass and Composite body options.
  - Sustainability: Nature-friendly design with a long operational lifetime.
- **Technical Specifications**
  - Application: Suitable for cold water installations up to 50°C (T50).
  - Health Compliance: Fully suitable for drinking water installations.
  - Smart Ready: Compatible with AMR (Automatic Meter Reading) options.
  - Usability: 360-degree rotating cover for easy readability in any installation position.
  - Warranty: 2-Year Full Warranty.



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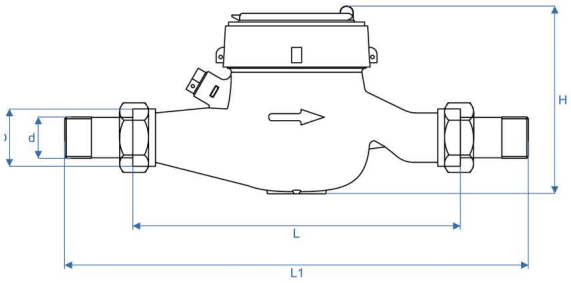
KAYI

MJD-xx-AYS

Data Sheet	MJD-15-AYS	MJD-20-AYS	MJD-25-AYS	MJD-32-AYS	MJD-40-AYS	MJD-50-AYS
Diameter - mm	DN15	DN20	DN25	DN32	DN40	DN50
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875	≤ 12,5	≤ 20,0	≤ 31,25
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,0	≤ 16,0	≤ 25,0
Transitional flowrate Q_2	≥ 0,025	≥ 0,04	≥ 0,063	≥ 0,1	≥ 0,16	≥ 0,25
Minimum flowrate Q_1	≥ 0,0156	≥ 0,025	≥ 0,0394	≥ 0,0625	≥ 0,1	≥ 0,1563
Measuring range (R) Q_3/Q_1	≤ 160					
Accuracy Class	2					
Temperature class T	T30/T50					
Water pressure class Bar	MAP 16					
Horizontal length mm	110-190	160-190	160-260		200-300	270-300
Pressure loss class Bar	ΔP 63					
Flow profile sensivity class	U0 D0					
Orientation	H (Yatay)					

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4	G1B	$G1^{1/4}B$	$G1^{1/2}B$	G2B	$G2^{1/2}B$
d	$R^{1/2}$	$R^{3/4}$	R1	$R1^{1/4}$	$R1^{1/2}$	R2
H	107,5	107,5	117,5	117,5	141,5	177

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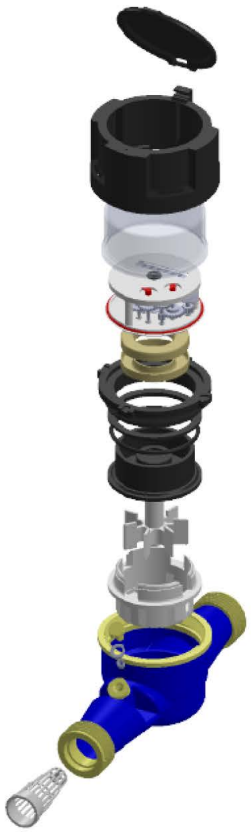
AYSU AYL-xx-AYS

Multijet Dry Type Water Meter

- **Metrological Performance & Ratio Superiority**
  - High Dynamic Range (R160): Designed to detect even the lowest flow rates, offering a high Q3/Q1 Ratio of 160. This ensures precise billing and efficient water management compared to standard meters.
  - Accuracy Class 2: Certified compliance with OIML R49 and EN ISO 4064 standards, guaranteeing Class 2 accuracy throughout its operational lifespan.
  - Installation Advantage (U0/D0): The meter features a U0/D0 sensitivity class, meaning it requires zero straight pipe distance before or after the meter. This allows for flexible installation in confined spaces without compromising accuracy.
- **Structural Durability & Quality Assurance**
  - Superior Pressure Resistance (MAP 16): Unlike standard 10-bar meters, the AYSU AYL Series is built to withstand a Maximum Admissible Pressure of 16 Bar (MAP 16), providing extra security against water hammer and high-pressure fluctuations.
  - Temperature Resilience (T50): Suitable for cold water applications up to 50°C (Temperature Class T30 & T50).
  - Robust Construction: Available in Brass, Bronze, or Composite body options to suit specific project requirements.
  - Tamper Protection: Equipped with magnetic protection rings and a mechanical sealing system to prevent unauthorized manipulation.
- **Additional Technical Data:**
  - Maximum Admissible Pressure (MAP): 16 Bar
  - Head Loss: Minimized hydraulic loss for efficient flow.
  - Indicating Range: 99,999 m^3
  - Mounting Orientation: Horizontal (H) or Vertical (V)



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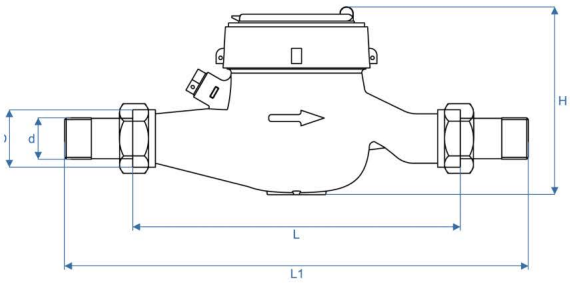
AYSU

AYL-xx-AYS

Data Sheet	AYL-15-AC	AYL-20-AC	AYL-25-AC	AYL-32-AC	AYL-40-AC
Diameter - mm	**DN15**	**DN20**	**DN25**	**DN32**	**DN40**
Overload flowrate Q_4	≤ 3,13	≤ 5,00	≤ 7,88	≤ 12,5	≤ 20,0
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,0	≤ 16,0
Transitional flowrate Q_2	≥ 0,0200	≥ 0,032	≥ 0,063	≥ 0,1	≥ 0,16
Minimum flowrate Q_1	≥ 0,0125	≥ 0,0200	≥ 0,039375	≥ 0,0625	≥ 0,01
Measuring range (R) Q_3/Q_1	**≤ 160**				
Accuracy Class	2				
Temperature class T	T30/T50				
Water pressure class Bar	MAP 16				
Horizontal length mm	100-165	110-190	160-260		160-260 200-300
Pressure loss class Bar	ΔP 63				
Flow profile sensivity class	U0 D0				
Orientation	H or V (gövdeye göre)				

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40
L	165	190	260	260	300
D	G3/4B	G1B	G1¼B	G1½B	G2B
H	100	100	110	110	120

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ABANT MJHD-xx-AYS

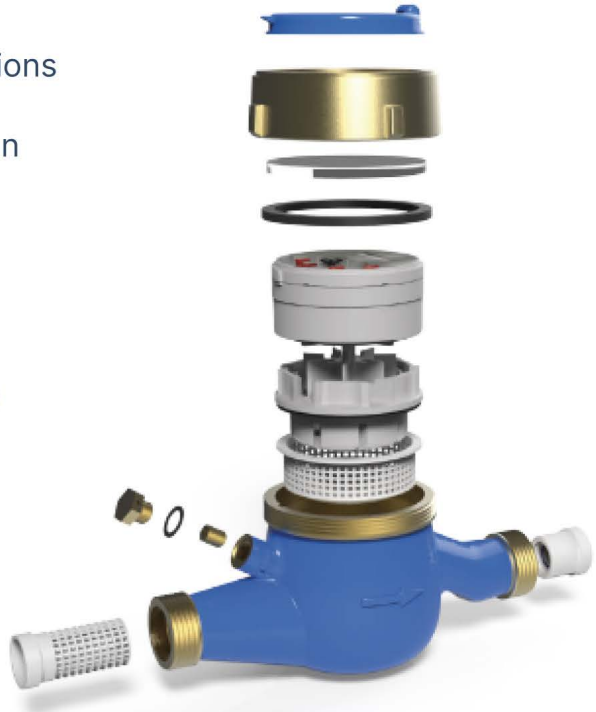
MULTIJET SEMI-DRY TYPE WATER METER

Key Technical Advantages

- High Measurement Precision (R160): Designed to capture even the lowest flow rates, the ABANT series achieves a measurement ratio of Q3/Q1 ≤ 160 (**R160**). This high sensitivity minimizes non-revenue water (NRW) and ensures precise billing for utilities and end-users.
- Enhanced Durability & Pressure: ResistanceOutperforming standard meters, the ABANT MJHD series is built to withstand a Maximum Admissible Pressure of 16 Bar (MAP 16). Its heavy-duty brass construction offers superior protection against water hammer and pressure fluctuations in the network.
- Flexible Installation (U0/D0): Featuring a U0/D0 flow profile sensitivity class, this meter requires zero straight pipe distance upstream or downstream. This allows for easy installation in confined spaces without compromising measurement accuracy.

Built for Harsh Conditions

- Temperature Class: Suitable for cold water applications up to 50°C (T30/T50).
- Protection Class: Rated IP68, ensuring full protection against dust and continuous immersion in water.
- Mechanism: **Equipped with a semi-dry mechanical register to prevent fogging and ensure clear readability.**



Additional Specifications

- Accuracy Class: Class 2 (Implied by MID standards compliance)
- Pressure Loss Class: ΔP 63
- Mounting Position: Horizontal (H)
- Indication Range: Up to 99,999 m³ or 999,999 m³ depending on DN size
- Optional Equipment: Check valve and remote transmission readiness.

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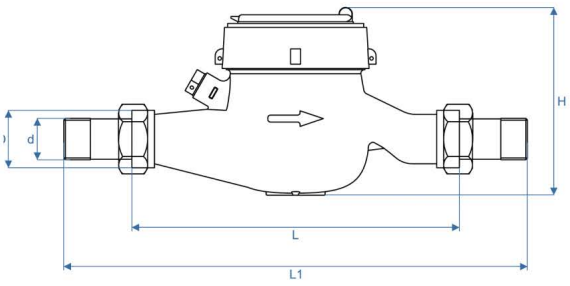
ABANT

MJHD-xx-AYS

Data Sheet	MJHD-15-AYS	MJHD-20-AYS	MJHD-25-AYS	MJHD-32-AYS	MJHD-40-AYS	MJHD-50-AYS
Diameter - mm	**DN15**	**DN20**	**DN25**	**DN32**	**DN40**	**DN50**
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875	≤ 12,5	≤ 20,0	≤ 31,25
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,0	≤ 16,0	≤ 25,0
Transitional flowrate Q_2	≥ 0,025	≥ 0,04	≥ 0,063	≥ 0,1	≥ 0,16	≥ 0,25
Minimum flowrate Q_1	≥ 0,0156	≥ 0,025	≥ 0,0394	≥ 0,0625	≥ 0,01	≥ 0,1563
Measuring range (R) Q_3/Q_1	**≤ 160**					
Accuracy Class	2					
Temperature class T	T 50					
Water pressure class Bar	MAP 16					
Horizontal length mm	110-190	160-190	160-260		200-300	270-300
Pressure loss class Bar	ΔP 63					
Flow profile sensivity class	U0 D0					
Orientation	H (Yatay)					

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4	G1B	$G1^{1/4}B$	$G1^{1/2}B$	G2B	$G2^{1/2}B$
d	$R^{1/2}$	$R^{3/4}$	R1	$R1^{1/4}$	$R1^{1/2}$	R2
H	107,5	107,5	117,5	117,5	141,5	177

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AYDER MJW-xx-E

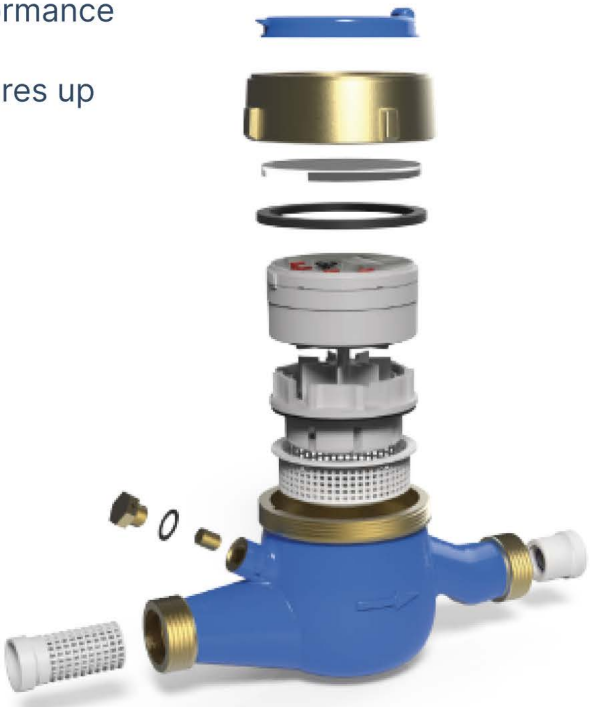
Multijet Wet Type Water Meter

Key Technical Advantages

- Reliable Wet Dial Mechanism: Featuring a Wet Type register, the mechanism operates directly within the water, eliminating the need for magnetic transmission. This design ensures the meter is 100% immune to external magnetic tampering and provides a direct, reliable reading of the volume.
- High Measurement Precision (**R160**): Despite its robust mechanical design, the AYDER series offers high sensitivity with a measurement ratio of Q3/Q1 ≤ 160 (R160). It effectively detects low flow rates, reducing non-revenue water costs for utilities.
- Superior Pressure Resistance (MAP 16): Engineered for demanding environments, the meter withstands a Maximum Admissible Pressure of 16 Bar (MAP 16). This is significantly higher than standard 10-bar meters, providing exceptional durability against pressure surges and water hammer effects.

Durability & Standards

- Protection Class: IP68 protection, ensuring performance even in flooded meter pits.
- Temperature Class: Suitable for water temperatures up to 50°C (T30/T50).



Additional Specifications

- Meter Type: Multi-Jet, Wet Dial
- Body Material: Brass
- Pressure Loss: ΔP 63
- Mounting Position: Horizontal (H)
- Strainer: Inlet strainer included

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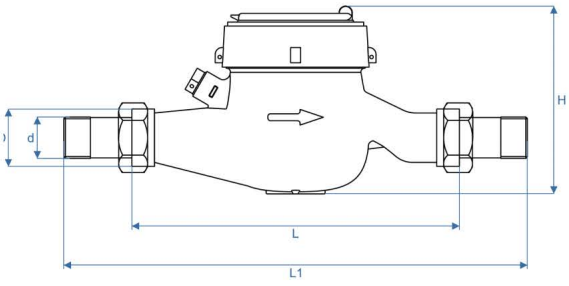
AYDER

MJW-xx-E

Data Sheet	MJW-15-E	MJW-20-E	MJW-25-E	MJW-32-E	MJW-40-E	MJW-50-E
Diameter - mm	**DN15**	**DN20**	**DN25**	**DN32**	**DN40**	**DN50**
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875	≤ 12,5	≤ 20,0	≤ 31,3
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,0	≤ 16,0	≤ 25,0
Transitional flowrate Q_2	≥ 0,025	≥ 0,04	≥ 0,0672	≥ 0,1	≥ 0,16	≥ 0,25
Minimum flowrate Q_1	≥ 0,015625	≥ 0,025	≥ 0,042	≥ 0,0625	≥ 0,01	≥ 0,15625
Measuring range (R) Q_3/Q_1	**≤ 160**					
Accuracy Class	2					
Temperature class T	T 50					
Water pressure class Bar	MAP 16					
Horizontal length mm	110-190	160-190	160-260		200-300	270-300
Pressure loss class Bar	ΔP 63					
Flow profile sensivity class	U0 D0					
Orientation	H (Yatay)					

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4	G1B	$G1^{1/4}B$	$G1^{1/2}B$	G2B	$G2^{1/2}B$
d	$R^{1/2}$	$R^{3/4}$	R1	$R1^{1/4}$	$R1^{1/2}$	R2
H	107,5	107,5	117,5	117,5	141,5	177

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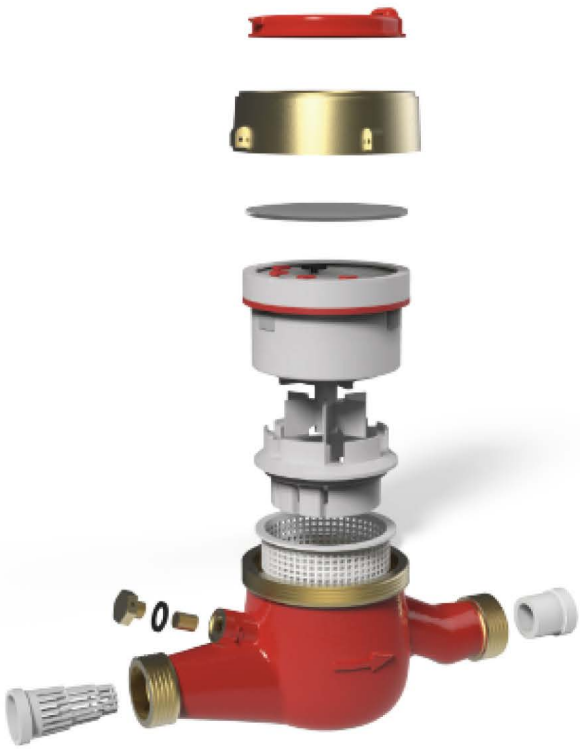
HAVZA MJH-xx-AYS

Multijet Dry Type HOT Water Meter

Key Technical Advantages

- T90 Hot Water Resistance: Unlike standard cold water meters, the HAVZA series holds a T90 Temperature Class certification.
- It is perfectly suited for central heating systems, industrial hot water lines, and residential hot water metering applications.
- R160 Measurement Precision: It delivers exceptional metrological performance even in hot water. With a high accuracy ratio of Q3/Q1 ≤ 160 (**R160**), it precisely records consumption even at low flow rates, ensuring billing accuracy.
- MAP 16 High Pressure Resistance: Featuring a reinforced brass body designed to withstand pressure fluctuations in hot water lines, it is rated for a Maximum Admissible Pressure of 16 Bar (MAP 16), maximizing system safety.
- Flexible Installation (U0/D0): Thanks to its advanced flow design, it boasts a U0/D0 flow profile sensitivity class. There is no requirement for straight pipe sections upstream or downstream of the meter, offering easy installation in boiler rooms and confined spaces.



Additional Specifications

- Mechanism Type: Multi-Jet, Dry Type.
- Temperature Class: **T90 (Hot Water)**.
- Protection Class: IP68.
- Body Material: Brass.
- Mounting Position: Horizontal (H).

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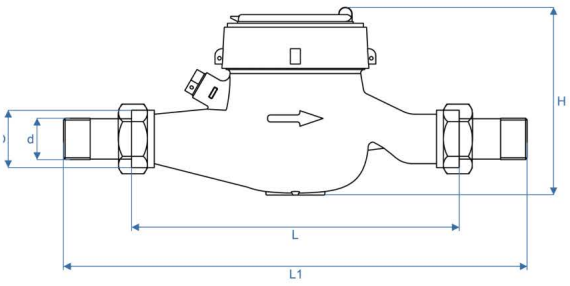
HAVZA

MJH-xx-AYS

Data Sheet	MJH-15-AYS	MJH-20-AYS	MJH-25-AYS	MJH-32-AYS	MJH-40-AYS	MJH-50-AYS
Diameter - mm	DN15	DN20	DN25	DN32	DN40	DN50
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875	≤ 12,5	≤ 20,0	≤ 31,25
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,0	≤ 16,0	≤ 25,0
Transitional flowrate Q_2	≥ 0,025	≥ 0,04	≥ 0,063	≥ 0,1	≥ 0,16	≥ 0,25
Minimum flowrate Q_1	≥ 0,0156	≥ 0,025	≥ 0,0394	≥ 0,0625	≥ 0,1	≥ 0,1563
Measuring range (R) Q_3/Q_1	**≤ 160**					
Accuracy Class	2					
Temperature class T	T 90					
Water pressure class Bar	MAP 16					
Horizontal length mm	110-190	160-190	160-260		200-300	270-300
Pressure loss class Bar	ΔP 63					
Flow profile sensivity class	U0 D0					
Orientation	H (Yatay)					

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4	G1B	$G1^{1/4}B$	$G1^{1/2}B$	G2B	$G2^{1/2}B$
d	$R^{1/2}$	$R^{3/4}$	R1	$R1^{1/4}$	$R1^{1/2}$	R2
H	107,5	107,5	117,5	117,5	141,5	177

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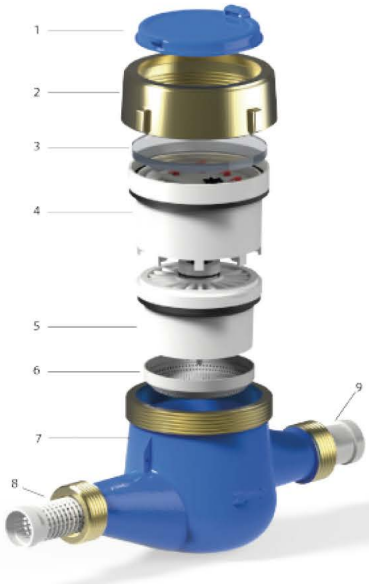
VRP-xx-E

VOLUMETRIC TYPE WATER METER

Key Technical Advantages

- Volumetric Rotary Piston Technology: The internal **rotating piston mechanism** captures and counts the exact volume of water. This technology provides higher sensitivity compared to standard jet meters and ensures consistent accuracy.
- **R160** Measurement Precision: Thanks to its volumetric design, the VRP series achieves a measurement ratio of Q3/Q1 ≤ 160 (R160). It effectively detects extremely low flow rates, minimizing non-revenue water.
- Dry Register with Magnetic Coupling: While the piston operates within the water (wet part), the register is hermetically sealed (dry part). The rotation is transmitted via a magnetic coupling, guaranteeing that the display remains fog-free and readable throughout its service life.
- High Pressure Resistance (MAP 16): The robust body construction is rated for a Maximum Admissible Pressure of 16 Bar (MAP 16).
- Smart Ready: The meters can be equipped with "Reed" type pulse transmitters upon request, making them ready for remote reading systems.



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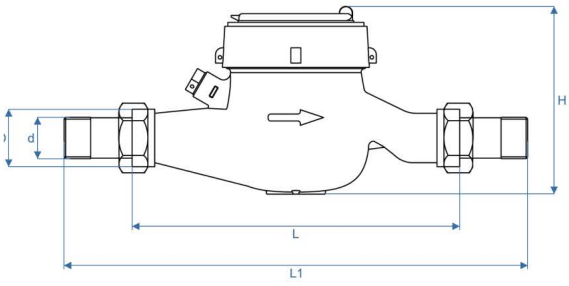
VRP-xx-E

Data Sheet	VRP-15-E	VRP-20-E	VRP-25-E	VRP-32-E	VRP-40-E
Diameter - mm	DN15	DN20	DN25	DN32	DN40
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,88	≤ 12,5	≤ 20,0
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,00	≤ 16,00
Transitional flowrate Q_2	≥ 0,025	≥ 0,040	≥ 0,063	≥ 0,100	≥ 0,160
Minimum flowrate Q_1	≥ 0,0156	≥ 0,025	≥ 0,0394	≥ 0,0625	≥ 0,100
Measuring range (R) Q_3/Q_1	≤ 160				
Accuracy Class	2				
Temperature class T	T 50				
Water pressure class Bar	MAP 16				
Horizontal length mm	165	190	260	260	300
Pressure loss class Bar	ΔP 63				
Flow profile sensivity class	U0 D0				
Orientation	H (Yatay)				

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40
L	165	190	260	260	300
L1	259	294	380	384	431
D	G3/4	G1B	$G1^{1/4}B$	$G1^{1/2}B$	G2B
d	$R^{1/2}$	$R^{3/4}$	R1	$R1^{1/4}$	$R1^{1/2}$
H	107,5	107,5	117,5	117,5	141,5

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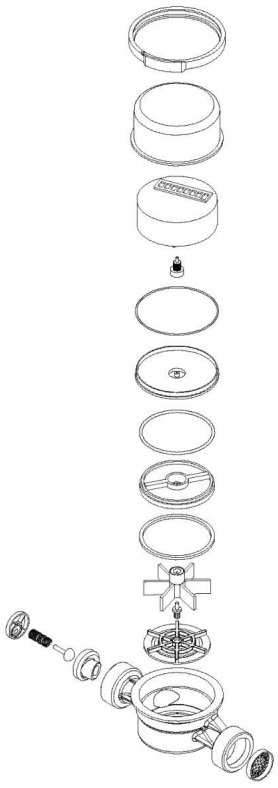
GÖKSU SJD-xx-AYS

SINGLE JET DRY TYPE WATER METER

Key Technical Advantages

- Single-Jet Technology: Designed with a single water stream impacting the turbine, this meter provides high sensitivity in a compact form factor. Its streamlined body design allows for easy installation in confined spaces, making it ideal for residential apartments and sub-metering.
- R160 Measurement Precision: Delivering superior metrological performance, the SJD series achieves a measurement ratio of Q3/Q1 ≤ 160 (R160). It accurately records consumption even at low flow rates, ensuring efficient billing and leakage detection for utilities.
- MAP 16 High Pressure Resistance: Built with a durable brass body, the meter is rated for a Maximum Admissible Pressure of 16 Bar (MAP 16). This high pressure rating provides enhanced protection against pressure surges and hydraulic shocks compared to standard 10-bar meters.
- Dry Type Register: The mechanical indicator is separated from the measurement chamber, ensuring it never comes into contact with water. This prevents fogging, condensation, and corrosion, guaranteeing clear readability of the 8-drum display (5 for m^3, 3 for liters) throughout the meter's service life.



Additional Specifications:

- Technology: Single-Jet, Dry Dial.
- Temperature Class: T30/T50 (Suitable for cold water up to 50°C).
- Protection Class: IP68.
- Body Material: Brass.
- Mounting Position: Horizontal (H).

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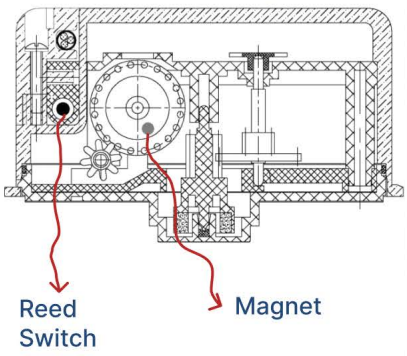
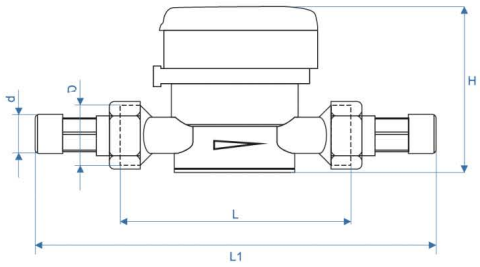
GÖKSU
SJD-xx-AYS

Data Sheet	SJD-15-AYS	SJD-20-AYS	SJD-25-AYS
Diameter - mm	**DN15**	**DN20**	**DN25**
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30
Transitional flowrate Q_2	≥ 0,025	≥ 0,04	≥ 0,0672
Minimum flowrate Q_1	≥ 0,0115625	≥ 0,025	≥ 0,042
Measuring range (R) Q_3/Q_1		**≤ 160**	
Accuracy Class		2	
Temperature class T		T30, T50	
Water pressure class Bar		MAP 16	
Horizontal length mm	80-115	130	160
Pressure loss class Bar		ΔP 63	
Flow profile sensivity class		U0 D0	
Orientation		H (Yatay)	

Specification for Pulse Output



Dimensions



Size	DN 15	DN 20	DN 25
L	110	130	160
L1	204	234	280
D	G3/4	G1B	$G1^{1/4}B$
d	$R^{1/2}$	$R^{3/4}$	R1
H	84,5	84,5	106

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CSKN-xx-Y

Smart Card Prepaid Water Meter

The AYSU CSKN series is a state-of-the-art Prepaid Water Meter that combines European Standard (MID) measurement precision with advanced Smart Card technology. Designed for both residential and commercial applications, this system allows users to pay for water in advance, eliminating billing uncertainties for consumers and collection risks for utility providers.

Available in corrosion-resistant Brass or high-strength Composite body options, the CSKN series ensures long-lasting performance even in harsh conditions.

Key Features

- Smart Card Technology: Integrated prepaid unit allows for easy credit loading via a secure smart card. The valve closes automatically when credit is exhausted.
- MID Certified Accuracy: Fully compliant with Directive 2014/32/EU and OIML R 49 standards, offering high measurement accuracy up to **R200**.
- Dry Dial Mechanism: The indicator mechanism is vacuum-sealed and completely isolated from water, ensuring the dial remains fog-free and readable regardless of water quality.
- Robust & Durable: Built with IP68 protection against dust and water immersion.
- Material Options: Available in **Brass** (Type B) or **Composite** (Type C) body materials to suit different installation environments.
- Magnetic Protection: Equipped with a magnetic coupling system that minimizes the effect of external magnetic interference.

Key Benefits

- For Utilities: Eliminates costs associated with bill distribution, manual meter reading, and payment collection.
- For Subscribers: Prevents unexpected "surprise" bills and allows for real-time monitoring of water consumption.
- Security: Features advanced electronic and mechanical security measures against tampering, external magnetic interference, or unauthorized opening of the casing.

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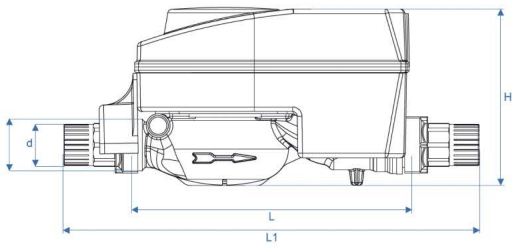
CSKN-XX

Data Sheet	CSKN-15	CSKN-20	CSKN-25
Diameter - mm	**DN15**	**DN20**	**DN25**
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30
Transitional flowrate Q_2	≥ 0,020	≥ 0,032	≥ 0,0504
Minimum flowrate Q_1	≥ 0,0125	≥ 0,020	≥ 0,0315
Measuring range (R) Q_3/Q_1	**≤ 200**		
Accuracy Class	2		
Temperature class T	T 50		
Water pressure class Bar	MAP 16		
Horizontal length mm	165-190	190	260
Pressure loss class Bar	ΔP 63		
Flow profile sensivity class	U0 D0		
Orientation	H (Yatay)		

Dimensions



Size	DN 15	DN 20	DN 25
L	190	190	260
L1	265	265	300
D	G3/4B	G1B	$G1^{1/4}B$
d	$R^{1/2}$	$R^{3/4}$	R1
H	119	119	127

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Industrial / Irrigational Water Meters

W-xx-E

WOLTMAN WATER METER (Turbine)

The AYSU W-XX-E Series features vertical Woltman type water meters with a dry dial mechanism, designed specifically for industrial water distribution networks, agricultural irrigation systems, and commercial facilities. With its robust cast iron body and precise measurement capabilities, it delivers reliable performance even under demanding operating conditions.

Features & Benefits

- Vertical Woltman Turbine: The vertical turbine design, operating perpendicular to the flow direction, ensures measurement stability and precision across both low and high flow rates .
- Dry Dial Mechanism: The counter mechanism is hermetically sealed and completely isolated from the water. This prevents fogging, condensation, or sediment build-up on the dial, ensuring clear readability for years .
- Magnetic Transmission: The rotation of the turbine is transmitted to the register via a magnetic coupling, ensuring complete sealing and eliminating the need for a direct mechanical link through the casing .
- Wide Size Range: Available in nominal diameters from DN50 to DN200, making it suitable for a wide variety of installation requirements .
- Easy-to-Read Register: The display features 7 numbered rollers (drums) and 2 rotary pointers for easy reading of volume in cubic meters and sub-units .
- Remote Reading Ready: The meter can be optionally equipped with a Reed Switch (Pulse Emitter) for integration into remote reading and building automation systems .
- Durable Materials: The body is manufactured from high-strength cast iron (HT250/QT400), while internal components are made from corrosion-resistant engineering plastics (ABS, POM, PP) and brass .

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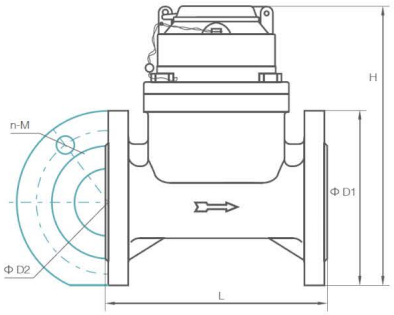
W-xx-E

Data Sheet	W-50-E	W-65-E	W-80-E	W-100-E	W-125-E	W-150-E	W-200-E
Diameter - mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200
Overload flowrate Q_4	≤ 31,25	≤ 50	≤ 78,75	≤ 125	≤ 200	≤ 312,5	≥ 500
Permanent flowrate Q_3	≤ 25	≤ 40	≤ 63	≤ 100	≤ 160	≤ 250	≥ 400
Transitional flowrate Q_2	≥ 0,49	≥ 0,8	≥ 1,25	≥ 2,0	≥ 3,2	≥ 5,00	≥ 8,0
Minimum flowrate Q_1	≥ 0,312	≥ 0,5	≥ 0,787	≥ 1,25	≥ 2,0	≥ 3,125	≥ 5,00
Measuring range (R) Q_3/Q_1	**≤ 80**						
Accuracy Class	2						
Temperature class T	T30 / T50						
Water pressure class Bar	MAP 16						
Horizontal length mm	200	200	225	250	250	300	350
Pressure loss class Bar	ΔP 63						
Flow profile sensivity class	U10 D5						
Orientation	H (Horizontal)						

Dimensions



Size	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
L	200	200	225	250	250	300	350	450	500
H	253	268	284	295	310	339	382	438	488
D1	165	185	200	220	250	285	340	395-405	445-460
D2	125	145	160	180	210	240	295	350-355	400-410
nxM	4xM16	4xM16	8xM16	8xM16	8xM16	8xM20	8-12xM20	12xM20-24	12xM20-24

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WT-xx-ET

IRRIGATION TYPE WOLTMAN WATER METER (Single jet)

AYSU WT-XX-ET Series are high-precision industrial water meters designed for the accurate measurement of water consumption in commercial, industrial, and agricultural applications1. Engineered with a robust cast iron body and an interchangeable measuring unit, they ensure long-term reliability and easy maintenance in demanding environments.

Key Features

- Dry Dial & Magnetic Transmission: The meter mechanism is vacuum-sealed and isolated from the water (Dry Dial). The rotation of the turbine is transmitted to the register via a magnetic coupling, ensuring the dial remains fog-free and readable over time.
- Wide Application Range: Available in sizes from DN50 to DN300, meeting the needs of various industrial projects with flow rates ranging from 25 m^3/h up to 1600 m^3/h.
- Easy Maintenance (Interchangeable Mechanism): The measuring mechanism can be removed and replaced without dismantling the entire meter from the pipeline, thanks to the flanged cover design.
- Remote Reading Ready: In addition to the standard mechanical display, the meters can be optionally equipped with a Pulse Output Module (Reed Switch) for integration into remote reading and building automation systems.
- Robust Construction: The housing is manufactured from durable cast iron or steel and protected against corrosion, suitable for operating pressures up to 16 bar.

Approvals & Compliance

This product is certified under the EU Directive 2014/32/EU (MID), Annex III (Water Meters). It bears the CE marking and supplementary metrology marking (M), ensuring it meets all legal requirements for commercial billing and trade across the European market and recognized territories.

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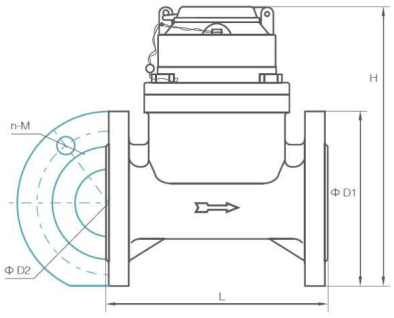
WT-xx-ET

Data Sheet	WT-50-ET	WT-65-ET	WT-80-ET	WT-100-ET	WT-125-ET	WT-150-ET	WT-200-ET	WT-250-ET	WT-300-ET
Diameter - mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
Overload flowrate Q_4	≤ 31,25	≤ 50	≤ 78,75	≤ 125	≤ 200	≤ 312,5	≥ 500	≥ 787,5	≥ 1250
Permanent flowrate Q_3	≤ 25	≤ 40	≤ 63	≤ 100	≤ 160	≤ 250	≥ 400	≥ 630	≥ 1000
Transitional flowrate Q_2	≥ 1,000	≥ 1,6	≥ 2,52	≥ 4,0	≥ 6,4	≥ 10,00	≥ 16,0	≥ 25,0	≥ 40,0
Minimum flowrate Q_1	≥ 0,625	≥ 1,00	≥ 1,575	≥ 2,5	≥ 4,0	≥ 6,25	≥ 10,00	≥ 15,75	≥ 25,00
Measuring range (R) Q_3/Q_1	**≤ 40**								
Accuracy Class	2								
Temperature class T	T30 / T50								
Water pressure class Bar	MAP 16								
Horizontal length mm	200	200	225	250	250	300	350	450	500
Pressure loss class Bar	ΔP 63								
Flow profile sensivity class	U10 D5								
Orientation	H (Horizontal)								

Dimensions



Size	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
L	200	200	225	250	250	300	350	450	500
H	253	268	284	295	310	339	382	438	488
D1	165	185	200	220	250	285	340	395-405	445-460
D2	125	145	160	180	210	240	295	350-355	400-410
nxM	4xM16	4xM16	8xM16	8xM16	8xM16	8xM20	8-12xM20	12xM20-24	12xM20-24

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Which Type of Woltman Water Meter Should You Choose?

Advantages of the WT-XX-ET Series (Horizontal Axis)

- Interchangeable Mechanism (Kit): The primary advantage of this series is its "interchangeable" measuring unit. This feature allows for repairs or calibration by simply removing and replacing the internal mechanism without the need to dismantle the entire meter body from the pipeline .
- Larger Diameter Options: For large-scale pipelines requiring DN250 and DN300 sizes, this series is the exclusive option (as the W-XX-E series caps at DN200) .
- Simple and Robust Structure: The horizontal turbine design is generally highly durable and reliable under conditions of continuous, high-volume flow.

Advantages of the W-XX-E Series (Vertical Axis)

- Higher Sensitivity (R80): The vertical turbine structure (Vertical Woltman) allows the impeller to start rotating at lower flow rates due to the optimal angle of water impact. According to the technical data, a DN50 meter in the WT-XX-ET series begins measuring at 625 liters/hour (Q_1), whereas the W-XX-E series begins at 312 liters/hour . This makes the W-XX-E series significantly superior in detecting leaks and low-flow seepage.
- Wide Measuring Range: By capturing lower flow rates effectively, this series offers a broader dynamic measurement range.

Selection Guide: Which Model Should You Choose?

Scenario A: Choose the W-XX-E Series (Vertical Turbine) If:

- Water Consumption is Variable: In facilities with fluctuating demand—where usage ranges from very low to very high (e.g., hotels, hospitals, or networks with low night-time consumption)—this series is essential to ensure low flow rates are not missed.
- Precise Billing is Required: Recording low flows (drips, leaks, etc.) is crucial for preventing revenue loss (Non-Revenue Water). The R80 sensitivity class ensures maximum revenue recovery.
- Agricultural Irrigation: As start-up and shut-down flow rates in irrigation systems can vary, the vertical turbine responds more effectively to these fluctuations.

Scenario B: Choose the WT-XX-ET Series (Horizontal Turbine) If:

- Maintenance Ease is a Priority: In tight spaces or critical lines where removing the meter body is difficult or costly, the "Interchangeable Unit" feature offers significant operational convenience by allowing for quick internal kit replacement.
- Very Large Pipelines (DN250 - DN300): If your pipeline diameter exceeds 200 mm, this series is the only option available based on the provided technical documents .
- Constant and High Flow Profiles: For applications with consistent high-volume flow (e.g., pump outlets or main transmission lines), the R40 sensitivity class is sufficient, and the durability of the horizontal turbine design is an advantage.

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Ultrasonic / Digital Water Meters

SNZ-xx-UW

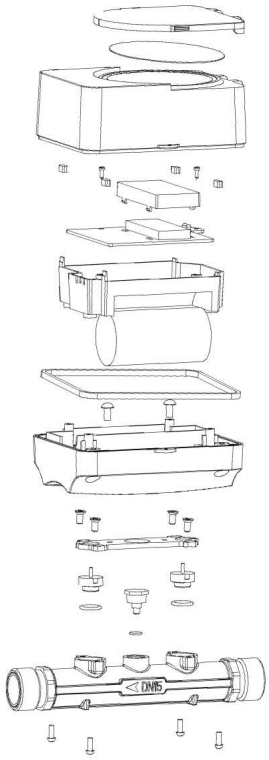
Smart Residential Ultrasonic Water Meters

Lossless Revenue Management and Long-Lasting Precision

The Euromet SNZ-UW series (DN15 - DN40) is a family of static water meters with brass bodies designed specifically for residential and commercial use. Unlike mechanical meters, the ultrasonic measurement technology contains no moving parts, ensuring immunity to sediments and particles while maintaining precision over time.

Key Features:

- Fully Static Structure: No moving impellers or gears; ensures zero wear and maintenance-free operation.
- High Precision: Exceptional leak detection capability with a low minimum flow rate (Q1) and wide dynamic range.
- Ratio : **R400**
- Flexible Installation: Can be installed in Horizontal (H) or Vertical (V) positions without compromising accuracy.
- Long Battery Life: Powered by a non-replaceable lithium battery with a service life exceeding 10 years.
- IoT Ready: Equipped with a standard optical port and supports optional modules like **M-Bus, Wireless M-Bus (WMbus), LoRa, LoRaWAN, and GPRS** for smart metering.



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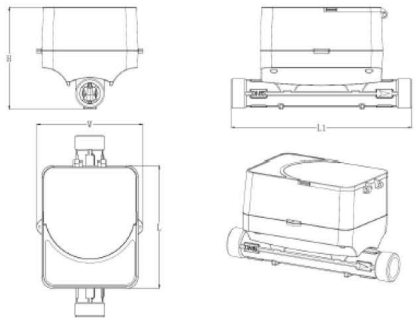
SNZ-xx-UW

Data Sheet	SNZ-15-UW	SNZ-20-UW	SNZ-25-UW	SNZ-32-UW	SNZ-40-UW
Diameter - mm	**DN15**	**DN20**	**DN25**	**DN32**	**DN40**
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875	≤ 12,5	≤ 20,0
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,00	≤ 16,00
Transitional flowrate Q_2	≥ 0,010	≥ 0,016	≥ 0,0252	≥ 0,040	≥ 0,064
Minimum flowrate Q_1	≥ 0,00625	≥ 0,010	≥ 0,016	≥ 0,0252	≥ 0,040
Measuring range (R) Q_3/Q_1	**≤ 400**				
Accuracy Class	2				
Temperature class T	T30 / T50				
Water pressure class Bar	MAP 16				
Horizontal length mm	165	195	225	180	200
Pressure loss class Bar	ΔP 63				
Flow profile sensivity class	U0 D0				
Orientation	H (Horizontal) / V (Vertical)				

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40
L	116,5	116,5	116,5	116,5	116,5
L1	165	195	225	180	200
D	G3/4	G1B	$G1^{1/4}B$	$G1^{1/2}B$	G2B
d	$R^{1/2}$	$R^{3/4}$	R1	$R1^{1/4}$	$R1^{1/2}$
H	96,5	96,5	107	110	115

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SNZ-xx-UW

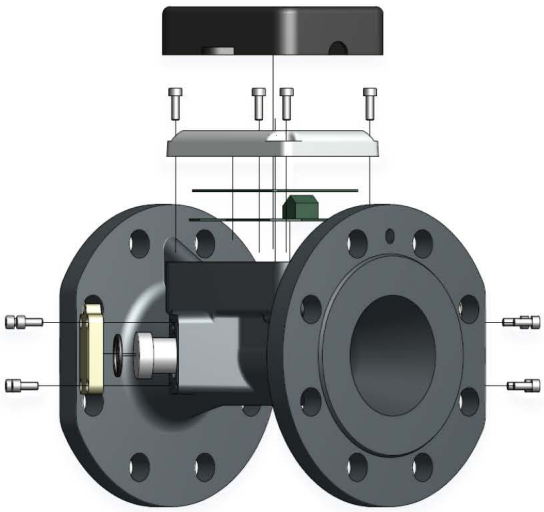
Industrial Ultrasonic Water Meters

Professional Solution for Network Management and High Consumption

The Euromet SNZ-UW series (DN50 - DN250) consists of high-capacity flanged water meters designed for water distribution networks, industrial facilities, and irrigation lines. Utilizing advanced ultrasonic "transit-time" technology, these meters provide precise bi-directional measurement and minimize network losses

Key Features:

- High Flow Capacity: Stable measurement performance for flow rates (Q3) up to 630 m^3/h.
- Minimal Pressure Loss: The full-bore design minimizes pressure drop (max 0.63 bar), reducing energy costs for pumping.
- Ratio **R400**
- Robust Design: Durable construction with IP68 protection, suitable for harsh industrial environments and submerged pits.
- Advanced Data Communication: Comprehensive support for wired and wireless protocols (**M-Bus, LoRaWAN, etc.**) for seamless integration into AMR/AMI systems.
- Reliable Billing: MID certified accuracy with secure, non-resettable data logging and tamper-proof sealing.



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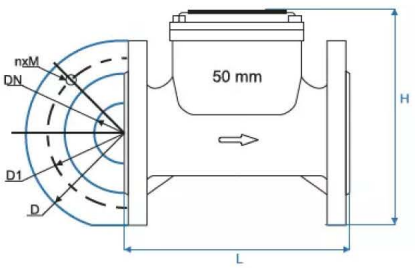
SNZ-xx-UW

Data Sheet	SNZ-50-UW	SNZ-65-UW	SNZ-80-UW	SNZ-100-UW	SNZ-125-UW	SNZ-150-UW	SNZ-200-UW	SNZ-250-UW
Diameter - mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250
Overload flowrate Q_4	≤ 31,25	≤ 50	≤ 78,75	≤ 125	≤ 200	≤ 312,5	≥ 500	≥ 787,5
Permanent flowrate Q_3	≤ 25	≤ 40	≤ 63	≤ 100	≤ 160	≤ 250	≥ 400	≥ 630
Transitional flowrate Q_2	≥ 0,10	≥ 0,16	≥ 0,252	≥ 0,40	≥ 0,64	≥ 1,00	≥ 1,60	≥ 2,52
Minimum flowrate Q_1	≥ 0,0625	≥ 0,010	≥ 0,0157	≥ 0,25	≥ 0,40	≥ 0,625	≥ 1,00	≥ 1,575
Measuring range (R) Q_3/Q_1	≤ 400							
Accuracy Class	2							
Temperature class T	T30 / T50							
Water pressure class Bar	MAP 16							
Horizontal length mm	200	200	225	250	250	300	350	450
Pressure loss class Bar	ΔP 63							
Flow profile sensivity class	U0 D0							
Orientation	H (Horizontal) / V (Vertical)							

Dimensions



Size	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250
L	200	200	225	250	250	300	350	450
H	252	262	279,5	289,5	303	332,5	389	442,5
D	165	185	200	220	250	285	340	405
D1	125	145	160	180	210	240	295	355
nxM	4xM16	4xM16	8xM16	8xM16	8xM16	8xM20	12xM20	12xM24

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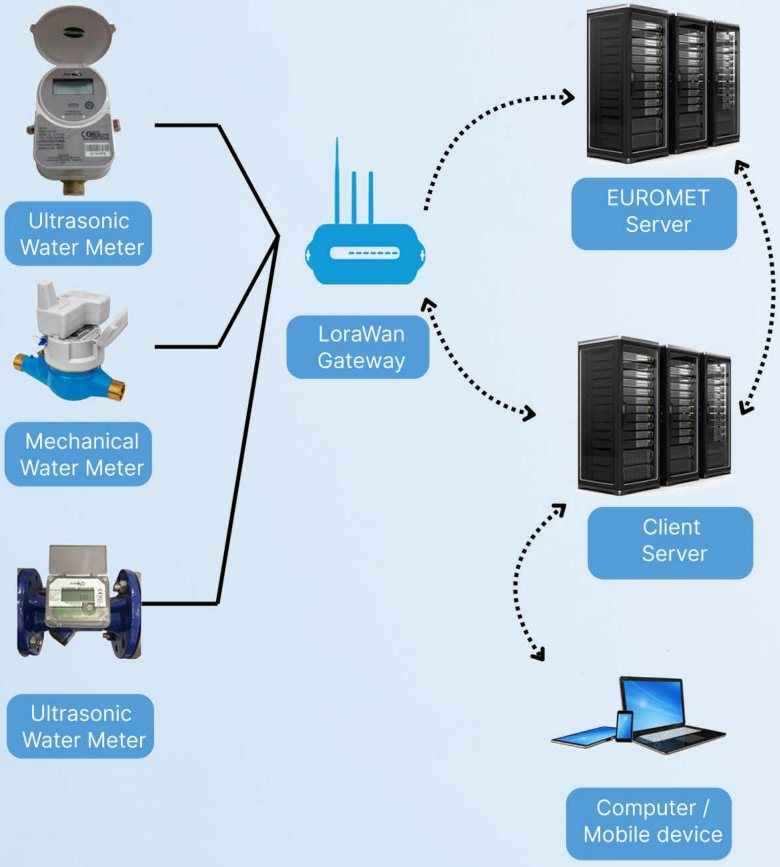
LoRaWAN-Based Smart Water Management Systems

Technology Overview: What is LoRaWAN?

LoRa (Long Range) is a wireless networking technique that uses radio frequency signals for data exchange.
Key Features: It provides both secure transmission and a very wide coverage area.
Advantage: Unlike Wi-Fi and Bluetooth technologies, it can transmit data for much longer periods and over longer distances; this feature allows the system to operate with significantly lower battery consumption.
System Components: LoRa communication technology consists of four main components: End device (meter), Gateway, Network Server, and Application Server.

System Architecture and Working Principle

Connection Structure: Mechanical and ultrasonic meters connect to the internet via the LoRaWAN Gateway, making them readable from anywhere.
Data Flow: This structure enables remote monitoring and control; meter data is collected and transferred to management units securely, uninterruptedly, and cost-effectively.
Software Infrastructure: The software used and developed in the system is entirely owned by EUROMET.



LoRaWAN-Based Smart Water Management Systems

Teknik Kazanımlar ve Verimlilik Analizi

Ölçüm Hassasiyeti: LoRaWAN teknolojisinin kullanıma sunulmasıyla, mevcut sayaçlara kıyasla her bir sayaçta saatte yaklaşık 30 litre daha hassas ölçüm yapılabilmektedir.
Kayıp/Kaçak Önleme: Abone sayısıyla çarpıldığında bu hassasiyet farkı, milyonlarca metreküplük su kayıp ve kaçağının önlenmesini sağlar.
Sürdürülebilirlik ve Gelir: Bu sistem sayesinde hem belediye gelirleri artar hem de suyun rasyonel ve sürdürülebilir kullanımı temin edilir.

Akıllı Yönetim Platformu ve Abone Kontrolü

Merkezi İzleme: Tüm sayaç verileri tek bir merkezde toplanarak anlık izleme sağlanır.
Uzaktan Vana Kontrolü: Borçlu aboneler veya kaçak durumlarında uzaktan su kesme/açma (vana kontrolü) yapılabilir.
Kaçak Analizi: Sistemin sunduğu saatlik hassas ölçüm verileri ile şebekedeki anlık su kayıpları tespit edilir ve raporlanır.

Ultrasonik ve Mekanik Sayaç Teknolojisi

Ultrasonik Sayaçlar: Hareketli parçası olmayan, hassas ses dalgaları ile ölçüm yapan, tıkanma ve aşınma sorunu yaşamayan uzun ömürlü cihazlardır.
Mekanik Sayaçlar: Geleneksel yapıyı LoRaWAN modülü ile birleştirerek akıllı hale getiren ekonomik çözümlerdir.
Ortak Özellik: Her iki model de LoRaWAN Gateway üzerinden internete bağlanarak her yerden okunabilir yapıdadır.

Yatırımın Geri Dönüşü ve Kazanımlar

Gelir Artışı: Mevcut sayaçlara göre saatte yaklaşık 30 litre daha hassas ölçüm yapabilme yeteneği, faturalandırılmayan su miktarını (NWR) minimize eder.
Operasyonel Tasarruf: Sayaç okuma personeli maliyetlerini düşürür ve insan kaynaklı okuma hatalarını ortadan kaldırır.
Kaynak Yönetimi: Suyun rasyonel kullanımı sağlanarak sürdürülebilir bir çevre yönetimi oluşturulur.

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YİĞİT-xx-Y

Smart Water Meters with Electronic Index

Precision Measurement, Long Life, and Prepayment Infrastructure

The Euromet AYSU YİĞİT-XX-Y series is an advanced water meter family that combines the durability of mechanical turbine technology with the digital precision of an electronic calculation unit . Designed for residential and commercial applications, this series is available in DN15, DN20, and DN25 sizes.

Key Features:

- Hybrid Measurement Technology: It detects water flow via a mechanical turbine and transmits the data through a magnetic coupling to the electronic calculation unit for digital-precision recording .
- High Measurement Precision (R250): Exceeding standard requirements, the R250 (Q3/Q1) measurement ratio ensures that even very low flow rates are detected, preventing revenue loss.
- Long Battery Life: Powered by a non-replaceable lithium battery, offering a service life of more than 10 years .
- Prepayment Feature: The meters are equipped with a built-in prepayment device, making them suitable for smart water management projects requiring credit-based usage.
- Durable and Flexible Body Options: Available with either a Brass (B) or Composite (C) body to suit specific project requirements.
- Digital Display: Consumption data, flow rates, and status symbols are clearly legible on the 8-digit LCD screen.

Security and Quality

- Tamper Protection: The threaded ring protecting the electronic unit and the meter body are sealed together to prevent unauthorized access.
- Check Valve Support: An optional non-return valve (check valve) can be installed in the outlet channel without affecting the metrological seal integrity.
- Certification: Fully compliant with the 2014/32/EU (MID) Directive, OIML R 49, and EN ISO 4064 standards .

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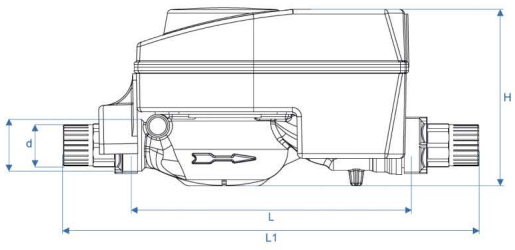
YİĞİT-xx-Y

Data Sheet	YİĞİT-15-Y	YİĞİT-20-Y	YİĞİT-25-Y
Diameter - mm	**DN15**	**DN20**	**DN25**
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30
Transitional flowrate Q_2	≥ 0,016	≥ 0,0256	≥ 0,0403
Minimum flowrate Q_1	≥ 0,010	≥ 0,016	≥ 0,0252
Measuring range (R) Q_3/Q_1	**≤ 250**		
Accuracy Class	2		
Temperature class T	T 50		
Water pressure class Bar	MAP 16		
Horizontal length mm	110-190	160-190	160-260
Pressure loss class Bar	ΔP 63		
Flow profile sensivity class	U0 D0		
Orientation	H (Yatay)		

Valve Closed

Valve Open

Dimensions



Size	DN 15	DN 20	DN 25
L	190	190	225
L1	265	265	300
D	G3/4	G1B	$G1^{1/4}B$
d	$R^{1/2}$	$R^{3/4}$	R1
H	119	119	127

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SD-xx-Y

Single-Jet Electronic Water Meters

Digital Precision, Long-Lasting Performance, and Flexible Body Options

The Euromet AYSU SD-XX-Y series is a modern family of water meters that combines the hydraulic advantages of the single-jet measurement principle with the digital precision of an electronic calculation unit. Designed for residential and light commercial use with nominal diameters of DN15, DN20, and DN25, this series offers both brass and composite body alternatives to suit various project requirements .

Key Features:

- Single-Jet Technology: Operates on the principle of a single stream of water impacting the turbine, ensuring low pressure loss and high sensitivity.
- High Measurement Range (R250): Features a measurement ratio (Q3/Q1) of up to 250 (R250), allowing for the precise recording of even very low flow rates.
- Long Battery Life: Powered by a non-replaceable 3.6V lithium battery with a service life of more than 10 years .
- Clear Digital Display: The 10-segment LCD screen eliminates reading errors. It supports a maximum indication of 99,999.999 m^3 and offers a high resolution of 0.00002 m^3 for precise monitoring .
- Body Options: Available in durable Brass (B) or corrosion-resistant Composite (C) body options depending on the need .
- Secure Data Storage: Measurement data and software are stored in non-volatile memory, cannot be altered externally, and are fully secured by a sealed structure.

Security and Quality

- This product is fully compliant with the European Union 2014/32/EU (MID) Directive, OIML R 49-1:2013, and EN ISO 4064-1:2014 standards . Both mechanical and electronic sections are sealed against unauthorized access.
- For detailed technical drawings and ordering codes, please contact our sales department.

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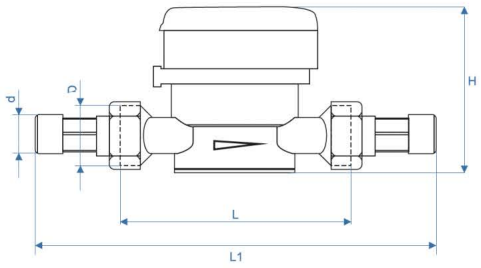
SD-xx-Y

Data Sheet	SD-15-Y	SD-20-Y	SD-25-Y
Diameter - mm	DN15	DN20	DN25
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30
Transitional flowrate Q_2	≥ 0,016	≥ 0,0256	≥ 0,0403
Minimum flowrate Q_1	≥ 0,010	≥ 0,016	≥ 0,0252
Measuring range (R) Q_3/Q_1	≤ 250		
Accuracy Class	2		
Temperature class T	T 50		
Water pressure class Bar	MAP 16		
Horizontal length mm	110-190	160-190	160-260
Pressure loss class Bar	ΔP 63		
Flow profile sensivity class	U0 D0		
Orientation	H (Yatay)		

Dimensions



Size	DN 15	DN 20	DN 25
L	190	190	225
L1	265	265	300
D	G3/4	G1B	$G1^{1/4}B$
d	$R^{1/2}$	$R^{3/4}$	R1
H	119	119	127

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SNZ-D-xx-Y

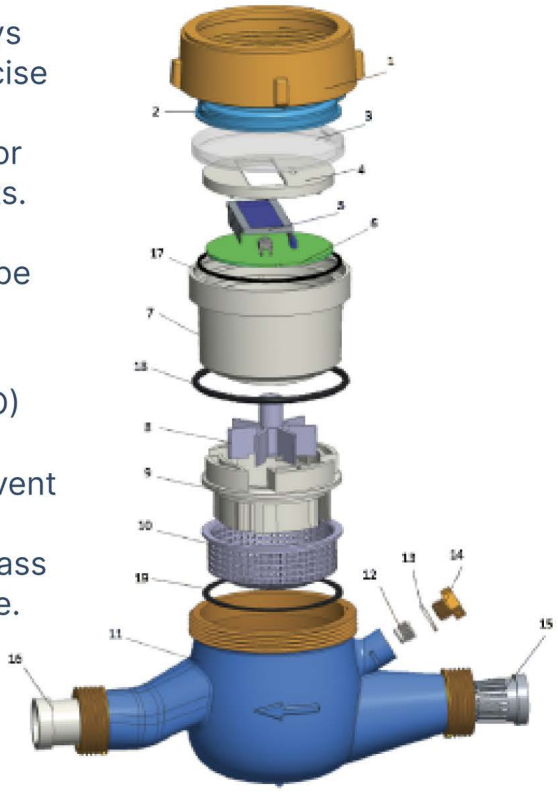
Electronic Display Volumetric Water Meters

Superior Measurement Precision with Rotary Piston Technology

The Euromet AYSU SNZ-D-XX-Y series is an advanced family of water meters based on the **rotary piston measurement** principle, which processes measurement data via an electronic unit and displays it on a **digital screen** . Thanks to its volumetric measurement technology, this series ensures high precision even at the lowest flow rates and offers solutions for various field requirements with brass and composite body options.

Key Features:

- Volumetric Measurement Technology: The rotary piston structure detects every drop of water and transmits data to the electronic unit via a magnetic coupling.
- Wide Dynamic Range (**R800**): Capable of recording even very low flows with a measurement ratio (Q3/Q1) of up to 800 (R800).
- Long Battery Life: Powered by a non-replaceable 3.6V lithium battery with a service life of more than 10 years.
- Digital LCD Display: The 10-segment LCD screen displays volumes up to 99,999.999 m^3 and features an ultra-precise resolution of 0.00002 m^3.
- Flexible Body Options: Available with either a **Brass** (B) or **Composite** (C) body to suit specific project requirements.
- Secure Data: Software and measurement information (volume) are stored in non-volatile memory and cannot be altered externally.



Security and Quality

- This product is fully compliant with the 2014/32/EU (MID) Directive, OIML R 49-1:2013, and EN ISO 4064-1:2014 standards. The meters feature a sealed structure to prevent unauthorized access.
- For detailed information and specific ordering codes (Brass vs. Composite), please contact your sales representative.

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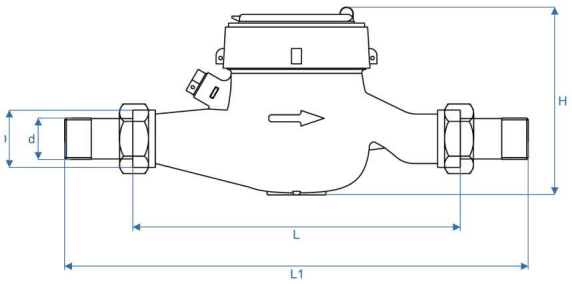
SNZ-D-xx-Y

Data Sheet	SNZ-D-15-Y	SNZ-D-20-Y	SNZ-D-25-Y		SNZ-D-40-Y
Diameter - mm	**DN15**	**DN20**	**DN25**	**DN32**	**DN40**
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,88	≥ 0,040	≤ 20,0
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,00	≤ 16,00
Transitional flowrate Q_2	≥ 0,0156	≥ 0,025	≥ 0,0394	≥ 0,0625	≥ 0,100
Minimum flowrate Q_1	≥ 0,010	≥ 0,016	≥ 0,0252	≤ 12,5	≥ 0,064
Measuring range (R) Q_3/Q_1	**≤ 800**				
Accuracy Class	2				
Temperature class T	T 50				
Water pressure class Bar	MAP 16				
Horizontal length mm	110-190	160-190	160-260	200-300	270-300
Pressure loss class Bar	ΔP 63				
Flow profile sensivity class	U0 D0				
Orientation	H (Yatay)				

Dimensions



Size	DN 15	DN 20
L	165	190
L1	259	294
D	G3/4	G1B
d	$R^{1/2}$	$R^{3/4}$
H	107,5	107,5

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YLZ-D-xx-Y

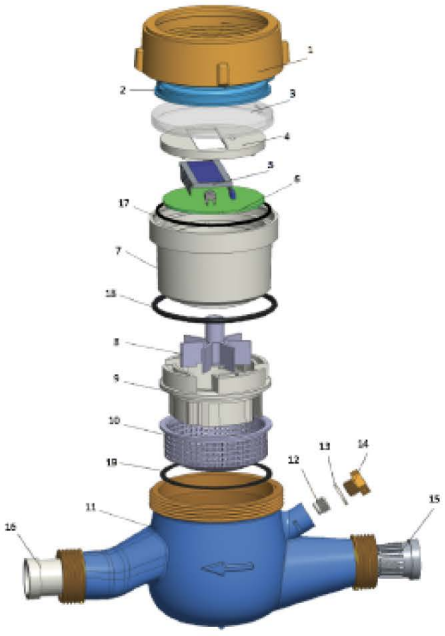
Electronic Index Mechanical Water Meters

Traditional Mechanical Reliability Meets Digital Precision

The Eurometer AYSU YLZ-D-XX-Y series represents a new generation of water meters that combines the robustness of mechanical measurement technology with the precision and readability of an electronic calculation unit . Available in sizes ranging from DN15 to DN40 with various body material options, it offers the ideal solution for residential and commercial applications.

Key Features:

- Hybrid Technology: It features a mechanical turbine measurement system that transmits rotation via a magnetic coupling to an electronic calculator for precise volume recording.
- High Measurement Precision (**R250**): Superior to standard mechanical meters, it offers a Q3/Q1 measurement ratio of R250, ensuring accurate measurement even at very low flow rates.
- Long Battery Life: Powered by a non-replaceable lithium battery with a service life exceeding 10 years.
- Clear Readability: Equipped with an 8-digit LCD display that eliminates reading errors by clearly showing volume, flow rate, and status information.
- Material Options: Available with either a **Brass** (B) or **Composite** (C) body to suit different installation requirements.



Security and Compliance

- Tamper Protection: The threaded ring protecting the electronic calculator is sealed together with the meter housing to prevent unauthorized access.
- Check Valve (Optional): An optional non-return valve can be installed in the outlet channel without affecting the metrological seal.
- Certification: Fully compliant with the MID 2014/32/EU Directive, OIML R 49, and EN ISO 4064 standards.

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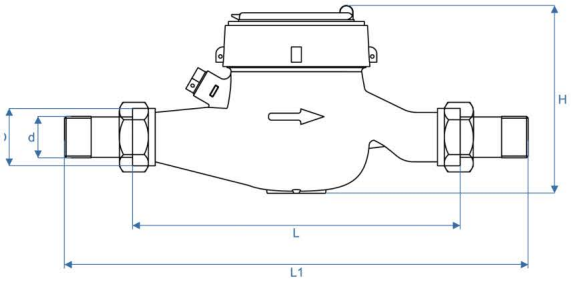
YLZ-D-xx-Y

Data Sheet	YLZ-D-15-Y	YLZ-D-20-Y	YLZ-D-25-Y	YLZ-D-32-Y	YLZ-D-40-Y
Diameter - mm	**DN15**	**DN20**	**DN25**	**DN32**	**DN40**
Overload flowrate Q_4	≤ 3,125	≤ 5,00	≤ 7,875	≤ 12,5	≤ 20,0
Permanent flowrate Q_3	≤ 2,50	≤ 4,00	≤ 6,30	≤ 10,00	≤ 16,00
Transitional flowrate Q_2	≥ 0,016	≥ 0,0256	≥ 0,0403	≥ 0,064	≥ 0,1024
Minimum flowrate Q_1	≥ 0,010	≥ 0,016	≥ 0,0252	≥ 0,040	≥ 0,064
Measuring range (R) Q_3/Q_1	**≤ 250**				
Accuracy Class	2				
Temperature class T	T 50				
Water pressure class Bar	MAP 16				
Horizontal length mm	110-190	160-190	160-260	200-300	270-300
Pressure loss class Bar	ΔP 63				
Flow profile sensivity class	U0 D0				
Orientation	H (Yatay)				

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40
L	165	190	260	260	300
L1	259	294	380	384	431
D	G3/4	G1B	$G1^{1/4}B$	$G1^{1/2}B$	G2B
d	$R^{1/2}$	$R^{3/4}$	R1	$R1^{1/4}$	$R1^{1/2}$
H	107,5	107,5	117,5	117,5	141,5

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H-xx-AYS

Ultrasonic Heat Meters

Precision, Durability, and Smart Metering Technology

The AYSU H-xx-AYS series represents a homogenous family of complete ultrasonic heat meters designed for heating applications. Utilizing advanced ultrasonic transit-time technology, these meters measure the thermal energy in closed circuits with high precision and stability, free from the wear and tear associated with mechanical parts.

Key Features:

- Ultrasonic Technology: Operates on the "time-of-flight" principle with no moving mechanical parts, ensuring long-term accuracy and minimal maintenance.
- MID Certified: Fully compliant with Directive 2004/22/EC (MID) and OIML R75 standards, ensuring legal metrology reliability.
- Integrated M-Bus: All meters come equipped with a wired M-Bus interface (EN 13757) for remote reading and integration into Building Management Systems (BMS).
- High Durability: Features a robust brass body for the flow sensor and an IP65 protection rating.
- Data Logging: Internal memory stores historical data for the last 24 months (total energy and volume).
- Long Battery Life: Powered by a non-replaceable 3.6V Lithium battery with an expected lifetime of more than 6 years (up to 10 years).

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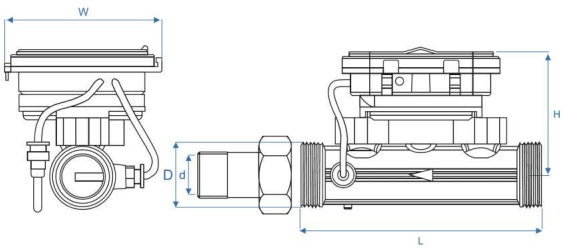
H-xx-AYS

Data Sheet	H-15-AYS	H-20-AYS	H-25-AYS	H-32-AYS	H-40-AYS
Diameter - mm	DN15	DN20	DN25	DN32	DN40
q_s	3,0	5,0	7,0	12,0	20
q_p	1,5	2,5	3,5	6,0	10
q_i	0,03	0,05	0,07	0,12	0,2
q_p/q_i	50	50	50	50	50
Maximum thermal power kW	261	435	610	1046	1743
Accuracy Class	2				
Temperature range	(4...95)ºC				
Temperature difference range	(3...150) K				
Horizontal length mm	110	130	160	180	200
Temperature sensor	Pt1000				
Pressure Loss	<25kPa/qp				
Orientation	H (Horizontal) / V (Vertical)				

Dimensions



Size	DN 15	DN 20	DN 25	DN 32	DN 40
L	110	130	160	180	200
W	90	90	90	90	90
D	G3/4B	G1B	$G1^{1/4}B$	$G1^{1/2}B$	G2B
d	$R^{1/2}$	$R^{3/4}$	R1	$R1^{1/4}$	$R1^{1/2}$
H	85	95	100	106	116

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Testing Equipments

Water Meter Verification and Calibration Test Benches

EUROTEST Industrial Series (DN50 – DN300)

Safe and Stable Infrastructure for Large Meters

Engineered for the rigorous testing conditions of flanged industrial and agricultural meters from DN50 to DN300. Safety and flow stability are prioritized for handling large water volumes.

Technical Features & Safety Systems

- Soft Start/Stop Technology: Rapid flow changes in large pipes (DN50+) cause dangerous "water hammer." The Industrial Series avoids standard bypass switching for high flows; instead, it uses a Soft Start-Stop method where the pump frequency is gradually ramped up and down by the inverter.
- PID Flow Stabilization: Maintaining a constant flow rate at high volumes is critical. The system utilizes a PID feedback loop to automatically adjust the pump frequency, ensuring the flow rate remains stable at the setpoint (FSP) throughout the test.

Hybrid Reference System

Master Meter Method: Uses high-precision electromagnetic flowmeters as the reference for faster testing cycles (±0,3 - ±%0,5 accuracy).

Gravimetric (Weighing) Method: For the highest level of accuracy, large-capacity weighing tanks can be used as the primary reference.

Safety Protocols

The system is equipped with emergency stop circuits and safety level switches in the weighing tank to prevent overfilling.

Applications

Industrial meter manufacturers, calibration laboratories, large-scale water distribution networks.

- Stend M128: Fully automated control, SQL database logging, customizable test times, and reporting.
- Control: Pneumatic actuator valves and computer-controlled frequency inverters.
- Temperature & Pressure: Digital temperature sensors at the test line inlet and outlet for real-time density correction and pressure monitoring.
- Vacuum Ejector (Optional): Automatically evacuates air from meters before testing to eliminate measurement errors.
- Calibration: Automatic corrections for gravitational acceleration and water buoyancy for the weighing system.

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Water Meter Verification and Calibration Test Benches

EUROTEST Domestic Series (DN15 – DN40)

High-Speed Serial Verification Solution

Designed for the rapid testing of high volumes of domestic water meters ranging from DN15 to DN40 (optionally up to DN50). This series is ideal for municipalities and manufacturers requiring efficiency.

Key Features & Operating Principle

- Multi-Meter Testing Capacity: The system allows for the serial connection of multiple meters (e.g., 8 or more) simultaneously, maximizing the number of meters verified per hour.
- High Precision "Flying Start-Stop" Method: Utilizing a diverter system, the flow is switched into the weighing tank without stopping the flow. This eliminates start/stop uncertainty, achieving accuracies up to ± 0.10% (gravimetric method).
- Bypass System: Flow stabilization is performed via the bypass line before the test begins. In this size range, the bypass ensures smooth transitions without the risk of water hammer.

Advanced Sensor Compatibility

- Optical (Laser) Sensors: For automatic reading of mechanical registers using the "Flying Start-Stop" method.
- Hall Effect Sensors: For rapid adjustment of meters with magnetic pointers during production or repair.

Applications

Municipal water authorities, repair workshops, high-volume production lines.

- Stend M128: Fully automated control, SQL database logging, customizable test times, and reporting.
- Control: Pneumatic actuator valves and computer-controlled frequency inverters.
- Temperature & Pressure: Digital temperature sensors at the test line inlet and outlet for real-time density correction and pressure monitoring.
- Vacuum Ejector (Optional): Automatically evacuates air from meters before testing to eliminate measurement errors.
- Calibration: Automatic corrections for gravitational acceleration and water buoyancy for the weighing system.

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EUROTEST - 40DM

Water Meters Errors of Indication Testing Equipment

The EUROTEST - 40DM is a specialized testing unit designed to determine the intrinsic errors of indication in water meters. Manufactured in Turkey, this equipment is engineered to verify meter accuracy across a nominal diameter range of DN15 to DN40.

Compliance & Standards:

The system is designed to operate within the scope of ISO 4064-1:2014 and OIML R49-1:2013 (Clause 7.2.3) standards.

Technical Specifications:

- Measurement Range: 5 l/h ~ 20 m^3/h
- Nominal Diameter: DN15 - DN40
- Measurement Uncertainty: k = 2 $\delta \leq 0.2\%$
- Operating Air Temperature: 20 ± 5°C
- Relative Humidity: 45 ~ 75% RH
- Origin: Turkey

Testing Capabilities: The EUROTEST - 50WM is capable of performing precise metrological verification:

- Flow Intervals: The equipment verifies that water meters operate accurately within allowed error margins across seven distinct flow intervals as described in the standards.
- Error Determination: The structural index error of the meters is determined by comparing the reading with the real volume.

ISO 4064-1:2014

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EUROTEST - 40ET

Endurance / Abrasion Testing Equipment

The EUROTEST - 40ET is a specialized test bench designed to simulate rigorous service conditions for water meters, focusing on endurance and abrasion resistance. Manufactured in Turkey, this system evaluates the long-term performance of meters ranging from DN15 to DN40.

Compliance & Standards:

The equipment performs durability tests in strict accordance with ISO 4064-1:2014 and OIML R 49-1:2013 (Clause 7.2.6) standards.

Technical Specifications:

- Measurement Range: 10 l/h ~ 20m³/h.
- Nominal Diameter: DN15 - DN40.
- Operating Air Temperature: 20±5 °C.
- Relative Humidity: 45~75% RH.
- Origin: Turkey.

Testing Capabilities (for $Q_3 \leq 16$ m³/h):

The system executes specific test profiles for Temperature Classes T30 and T50:

1. Discontinuous Test (at Q_3):
   - Flow Rate: Tested at permanent flowrate Q_3.
   - Cycles: 100,000 interrupts.
   - Timing: 15 seconds run time, followed by a 15-second pause.
   - Start-up/Rundown Duration: 0.15 [Q_3] (minimum 1 second).
   - Temperature: 20°C ±5 °C.
2. Continuous Test (at Q_4):
   - Flow Rate: Tested at overload flowrate Q_4.
   - Duration: 100 hours of continuous operation.
   - Temperature: 20±5 °C.

ISO 4064-1:2014

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EUROTEST - 40LP

Water Meters; Loss of Pressure Testing Equipment

The EUROTEST - 40LP is a specialized testing unit designed to measure pressure loss in water meters. Manufactured in Turkey, this equipment ensures precise verification of meter performance across nominal diameters from DN15 to DN40.

Compliance & Standards:

The equipment performs tests in accordance with ISO 4064-1:2014 and OIML R 49-1:2013 (Clause 6.5) standards.

Technical Specifications:

- Maximum Pressure Loss (ΔP 63): 0.63 bar
- Nominal Diameter: DN15 - DN40
- Operating Air Temperature: 20±5 °C
- Relative Humidity: 45~75% RH
- Origin: Turkey

Testing Methodology:

The system is designed to handle various pressure loss scenarios:

Standard Testing: Where it is established that the meter's pressure loss follows the square law, the pressure loss is tested at Q_3 only.

Advanced Analysis: If a pressure loss peak is suspected below Q_3, the system determines pressure loss between Q_1 and Q_3.

- The test starts at Q_1 and increases the flow rate by a maximum of 0.1 x times Q_3 steps.
- Once Q_3 is reached, the flow rate is decreased by a maximum of 0.1 x times Q_3 steps.

ISO 4064-1:2014

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EUROTEST - 50WM

Woltman Water Meter Testing Equipment

The EUROTEST - 50WM is a high-capacity testing unit specifically engineered for Woltman-type water meters. Manufactured in Turkey, this system is designed to handle large-scale metering requirements with nominal diameters ranging from DN50 to DN300.

Compliance & Standards:

This equipment ensures that water meters operate accurately within allowed error margins, strictly adhering to OIML R 49 and EN ISO 4064-1:2014 standards.

Technical Specifications:

- Measurement Range: 50 l/h ~ 500 m^3/h
- Measurement Uncertainty: k = 2 δ ≤ 0.2%
- Operating Air Temperature: 20 ± 5°C
- Relative Humidity: 45~75% RH
- Origin: Turkey

Testing Capabilities: The EUROTEST - 50WM is capable of performing precise metrological verification:

- Flow Intervals: It verifies that meters operate truly across seven distinct flow intervals as described in the relevant standards.
- Error Determination: The system determines the structural index error of the meters by comparing the readout against the real volume.

ISO 4064-1:2014

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EUROTEST - 40HM

Heat Meter Testing Equipment

The EUROTEST - 40HM is a precision testing unit designed specifically for heat meters. Manufactured in Turkey, this equipment is engineered to verify meter accuracy and performance across a nominal diameter range of DN15 to DN40.

Compliance & Standards:

The system is designed to operate within the scope of OIML R 75 and EN 1434 standards. It also references ISO 4064-1:2014.

Technical Specifications:

- Measurement Range: 5 l/h ~ 20 m^3/h
- Nominal Diameter: DN15 - DN40
- Measurement Uncertainty: k = 2 δ ≤ 0.2%
- Operating Air Temperature: 20 ± 5°C
- Relative Humidity: 45 ~ 75% RH
- Origin: Turkey

Testing Capabilities:

- Flow Intervals: The equipment verifies that heat meters operate truly within allowed error margins across seven distinct flow intervals as described in OIML R 75 and EN 1434 standards.
- Error Determination: The structural index error of the meters is determined by comparing the reading with the real volume.

ISO 4064-1:2014

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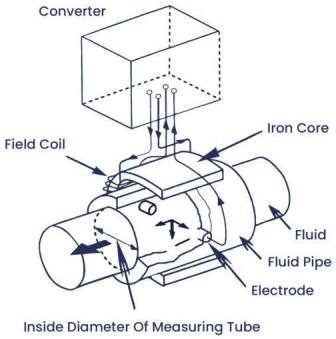
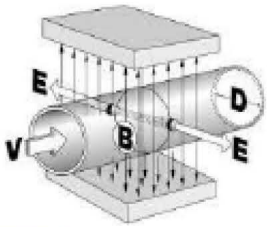
Flow Meters

FLOW METERS

Electromagnetic flowmeters work according to Faraday's Induction Law.

- An electrically conductive fluid passes through the magnetic field in an electrically isolated pipe. A pair of coils are used to generate the magnetic field and electric current is passed through these coils. A voltage proportional to the flow rate of the liquid is generated between the electrodes.
- The resulting voltage (V) varies depending on the flow rate (Q), the geometric correction factor (k), also known as body coefficent, the magnetic field size (B) and the flowmeter inside diameter. (D)





As a result; Q= v* (k*D*B) = v*K

- There is a linear relationship between the flowrate and the generated voltage.
- The voltage signals sensed with the electrodes are processed by a signal converter.

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YLZ-M

ELECTROMAGNETIC INDUCTIVE FLOWMETER

General Feautures

- Measuring stability and low energy consumption with programmable low frequency square wave magnetic field stimulation.
- High integration and accuracy management with the use of 16-bit microprocessors.
- High resistance to noise and reliable measurement by digital processing.
- Low EMI switching power supply with wide supply voltage range, high efficiency and low temperature rise.
- User-friendly operating frontend.
- Eliminating the sharp electrical noise in the flow signal and ensuring stability in indicators and outputs by using ”change rate limiting technology”.
- Enabling totalizer starting and stopping function by a remote alarm contact.
- Self-examination function.
- IP68 protection class for piping and electronics.
- IP67 protection class for converter (transmitter) unit.
- Programming language for both Turkisn and English.

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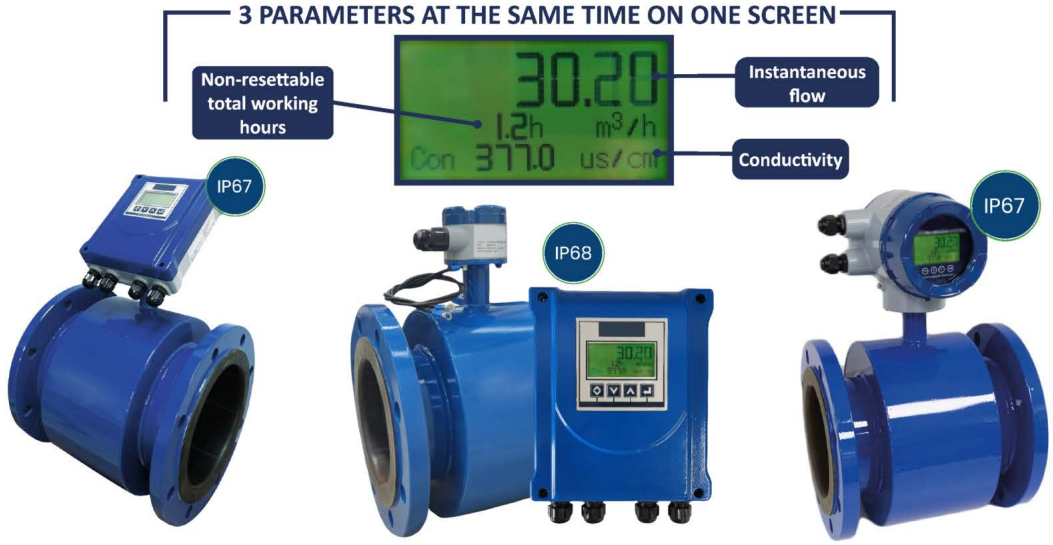
Technical Specifications

Transmitter

Power Supply	Standard 85-265 V AC 45-65Hz Optional 16-30 V DC Optional Solar Power
Energy Consumption	<15W
Communication	RS485, HART selectable
Flow Output	Standard 4-20 mA analog, frequency, pulse output Modbus (Optional)
Control Output	2 (forward / reverse, high alarm / low alarm)
Protection Class	IP67, IP68 (optional)
Display	3 Raws x 10 Digit LCD Display
Totalizer	3 Independent Totalizers
Cable Connection	M18 x 1,5
Test and Diagnosis	Self -diagnosis, failure record, current output test, control input/output test, emulation test mode etc.

Technical Specification

Measuring Range	0.1-15 m/sn
Measurement Field	Conductive Liquids
Body Material	ST37 Black Steel + Corrosion Resistant Paint
Sensor Material	SS316L Ops: SS304, HastelloyC, HastelloyB, Titanium, Tantalum, Platinum
Inner Coating	Teflon (PTFE) or Hard Rubber (Rubber)
Precision	0.5% or 0.25% (Türkak Accredited)
Temperature	-10°C ... +60°C Rubber / -20°C ... + 150°C Teflon
Moisture	%5-%95
Measurable Min.Conductivity	20 µS / cm Water 5 µS / cm Other Liquids
Connection	Flange Connection, Ops: Clamb Connection
Pressure	4MPa, 1.6MPa, 1.0MPa
Feed	85-265 VAC 50 Hz or 24VDC, Opt. Battery operated (5 years battery life)
Ground	Grounding Electrode Included
Exit	Pulse / Frequency / 4-20Ma / RS485 Modbus / 2 X Transistor Alarm (Programmable) / Opt. HART
Indicator	3x16 Backlit LCD Displaying Instant or Total Flow
Alarms	Empty Pipe, Sensor Error, Over Limit
Additional Features	Conductivity measurment, non-resettable working hours
Sampling Rate	It can be selected from 0.2sec to 100 seconds.



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Technical Specifications

Material Types

Housing Material	M 110 Carbon Steel (with Coating) M 210 Carbon Steel (with Coating) M 410 Carbon Steel (with Coating) M 610 Carbon Steel
Flanges	Standard Carbon Steel (with Coating) Stainless Steel (optional)
Clamp/Sleeve	Stainless Steel
Electrode Material	Stainless Steel 316 Hastelloy® C, Titanium or Tantalum (optional)
Inner Lining (Coating)	Hard Rubber Teflon (PTFE) (up to DN300) Ceramic (DN15.....DN40)
Connection Head	Stainless Steel (Only in Remote Type)
Converter (Transmitter)	Cast Aluminum

Installation Conditions

Line Occupancy	Full occupancy must be supplied
Inlet Pipeline	Minimum 5xDiameter straight pipeline
Outlet Pipeline	Minimum 2xDiameter straight pipeline
Earthing Ring	Non-conductive pipes must be equipped with earthing rings.

YLZ-M 110
(Teflon PTFE, Sandwich Type)

YLZ-M 210
(Ebonite Hard Rubber)

YLZ-M 410
(Teflon PTFE)

YLZ-M 610
(Teflon PTFE, Hygienic)

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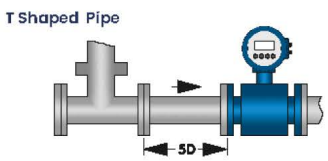
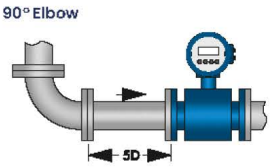
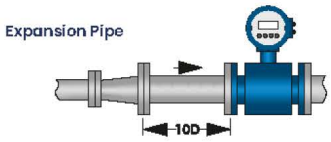
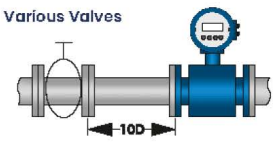
Technical Specifications

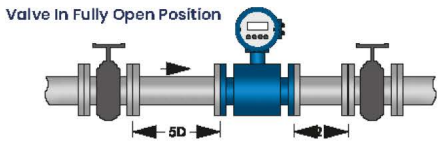
Installation Rules

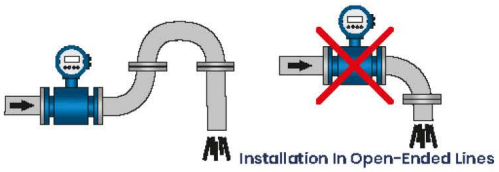


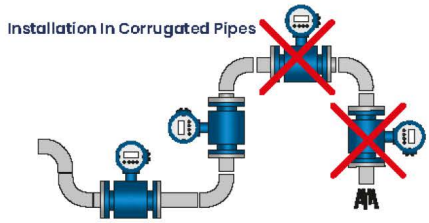












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ELECTROMAGNETIC FLOWMETER

SELECTION CODE TABLE

Product Type	YLZ-M	M0 Electromagnetic Flowmeter
Diameter	xxx	E.G 100 = Dn100
Indicator Type	-	Compact Type
	SPRT	Remote Type
Electrode Selection	-	SS316L
	PT	Platinum
	HB	Hastelloy B
	TA	Tantalum
	HC	Hastelloy C
	Tİ	Titanium
Inner Coating	PTFE	Teflon
	Rubber	Hard Rubber / Ebonite
Pressure Class	-	Standard (According to the values in the pressure flow chart.)
	Pn10	10 Bar
	Pn16	16 Bar
	Pn25	25 Bar
	Pn40	40 Bar
	Pn100	100 Bar
Protection Class	-	IP67 Compact Type
	-	IP68 Remote Type
Supply	24VDC	24V DC Supply
	-	220V AC Supply
Optional Outlet	HART	HART Exit

SAMPLE CODE:	YLZ-M	100	SPRT	HC	PTFE	P40	Ip68	24VDC	HART

Fill in the option table above according to the requested product type.

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INDUSTRIES & APPLICATIONS

Usage areas

- Water and Wastewater Industry
- Pharmaceutical and Cosmetic Industry
- Chemical Industry
- Paper Industry
- Mining and Energy Industry
- Agriculture
- Machinery Manufacturing Industry
- Mining Industry
- Energy Industry
- Oil Industry

Use Fluids

- Clean Water / Wastewater
- Industrial Water
- Raw well water
- Urban sewage
- Paper Pulp
- Liquid mixtures containing solid particals
- Organic liquid mixtures
- Low corrosive acid, alkali, base, salt solutions

Applications

- Treatment Plants applications
- Wastewater calculation applications
- Clean Water distribution applications
- Sludge measurement applications
- Agriculture and irrigation applications

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ELECTROMAGNETIC FLOWMETER M0

ELECTRONIC UNIT	
Supply	220VAC, 24VDC, Battery Supply
Exit	Standard (4-20 mA, Frequency, Pulse, RS485)
Communication	HART (Optional)
Ignition	2 pieces
Protection Class	IP67
Indicator	3 * 10 LCD Display
Cable Connection	M18 * 1.5
Warning	Coil Warning, Empty Line Warning, Electrode Warning
MATERIAL	
Sensor Body	Carbon steel
Flanges	Carbon steel
Electrodes	Standard Stainless Steel, Option Hastelloy, Titanium and Tantalum
Inner Coating	Ebonit (Hard Rubber), Teflon
Junction Box	Stainless Steel (Seperated Models Only)
Converter Box	Cast Aluminum
INSTALLATION CONDITIONS	
Line Occupancy	It must be ensured that the line is full.
Entry-Exit Distance	It does not require straight pipe distance.
Grounding Ring	If the pipe on which the flowmeter will be mounted is electrically insulating, a grounding ring should be used.

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Other Products / Services

Other Services

Conformity Assessment, Test & Calibration

1. Legislation : Under the 2014/32/EU Measuring Instruments Directive;

• Water Meters (Annex III MI-001)	• EU type-examination • Conformity to type based on Annex II - Module F instrument verification	• Annex II – Module B • Annex II - Module F
• Gas Meters and Volume Conversion Devices (Annex IV Conformity to type based on Annex II - Module F MI-002) instrument verification • Volume conversion device (gas meter subassembly)	• Conformity to type based on Annex II • Module F instrument verification	• Annex II - Module F
• Thermal Energy Meter (Annex VI MI-004)	• EU type-examination • Conformity to instrument verification	• Annex II – Module B • Annex II - Module F
• Measuring Instruments for Liquids Other than Water (Annex VII MI-005)	• Conformity to type based on instrument verification • Conformity based on unit verification	• Annex II - Module F • Annex II - Module G
• Automatic Weighing Instruments (Annex VIII MI-006) • - Automatic checkweigher - Automatic gravimetric filling instrument • - Discontinuous totaliser (totalising hopper weigher) - Continuous totaliser	• Conformity to type based on instrument verification	• Annex II - Module F
• Material Measures (Annex X MI-008)	• Conformity based on instrument Annex II - Module F1 verification	• Annex II - Module F

2. Legislation: 2014/31/EU Non-automatic weighting instruments Test and calibration services of all weighing instruments,

3. Standards : Under the ISO / IEC 17025 Accredited Laboratory “Calibration Laboratory “

- Water meters, Gas Meters, LPG Mastermeters, LPG and Fuel Meters, Tanker meters, Length measurement testing and calibration services,

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WATER METER MECHANISMS

Global Precision, Delivered by EUROMET At EUROMET, we are a trusted partner in water management solutions, supplying high-performance water meter mechanisms to customers across the globe. Our mechanisms are engineered to deliver long-term accuracy and reliability, ensuring seamless integration into various metering bodies.

Key Features & Advantages:

- **AYSU®** Brand Assurance: Our mechanisms are produced under our proprietary trademark, AYSU, representing EUROMET's commitment to engineering excellence and manufacturing consistency.
- International Certification & Compliance: Designed for global trade, our mechanisms are **CE MID certified** and fully compatible with OIML R49 and **ISO EN 4064** standards, ensuring they meet the strictest legal metrology requirements.
- Superior Quality & Durability: Manufactured with high-grade materials to resist wear and corrosion, ensuring a long operational lifespan even under challenging field conditions.
- Tailored to Your Needs: We understand that every market is different. We offer customization options to meet specific customer requirements, allowing for flexible solutions in measurement ratios and technical configurations.

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Heat Stations

What is a Heat Station & Floor Station?

- Heat Stations, also known as "Substations" in the industry, are modular units with various functions. They are installed separately in each apartment in buildings heated by a central system. They prepare domestic hot water using the instantaneous heating principle using a brazed plate heat exchanger and control the apartment's heating.

- In central heating systems, the floor station acts as an interface between the heating center and the apartments, acting as an intermediate heating station for that apartment. Heat stations do not produce energy; they control the energy coming from the heating center within the apartment.

What are the Advantages of Using EUROMET Heat Stations?

You can minimize your energy consumption and make your heating costs sustainable.
Compatible with all apartment heating types, it offers users unlimited function options:
You can measure your apartment's energy consumption and collect your consumption data in information centers via m-bus.

With Smart Control, you can control your apartment heating and domestic hot water from your phone.
The Recirculation Kit keeps your domestic hot water ready even after extended breaks.
With indirect heating stations, you can separate your apartment's circulation line, thus completely decentralizing the central system.

Thermostatic Control

In thermostatically controlled heating stations, control is thermostatically based on temperature. The system prioritizes domestic hot water. However, heating is also partially maintained while domestic hot water is being consumed.
The system essentially consists of a thermostatic temperature controller and a heat exchanger. The thermostatic temperature controller sensor is immersed in the heat exchanger.
Thus, when domestic hot water consumption begins in the apartment, the sensor begins to cool, and the thermostatic temperature controller opens.
Hot water from the boiler is directed to the heat exchanger and begins heating the domestic hot water.
When hot water consumption ends in the apartment, the sensor inside the heat exchanger heats up and closes the heat exchanger circuit.
The system remains closed until it cools.

CE M25

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What are the advantages of the Thermal Interface Unit?

- Use Ultrameter+ to measure your energy consumption and collect consumption data in information centers via m-bus.
- Control your apartment's heating and domestic hot water using your phone with Smart Control.
- Keep your domestic hot water always ready, even after long breaks, with the Recirculation Kit.
- Fully customize your central system by using Euromet T Series indirect heat stations to separate your apartment's circulation line.

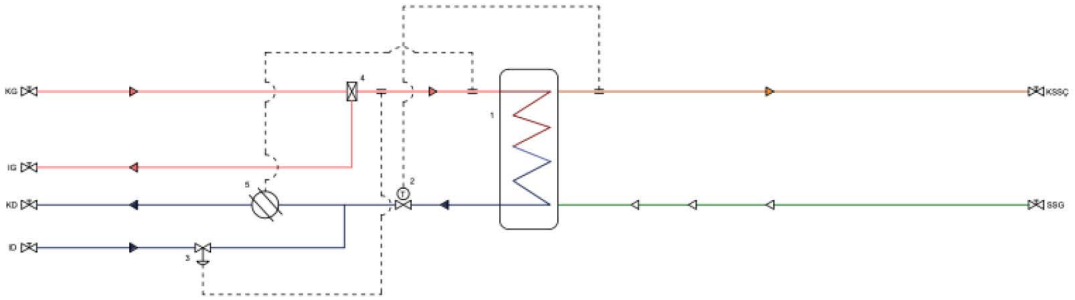
The following factors play a significant role when designing a newly constructed building's mechanical system:

- Reducing investment costs
- Minimizing future operating expenses
- Minimizing maintenance costs
- Improving heating quality
- Increasing domestic hot water supply
- Increasing control options for providing domestic hot water and heating energy to the apartment.

The energy source can be an oil- or gas-fired boiler or hot water from a centralized energy production facility (waste heat, geothermal, district heating, cogeneration, etc.).

Balancing the system to meet peak demand is crucial, and this can be achieved by connecting an accumulation tank between the system and the energy center.

1. Sıcak Su Eşanjörü
2. Termostatik Kontrolör
3. Fark Basınç Kontrolörü
4. 3 Yollu Dağıtıcı + Pislik Tutucu
5. Kalorimetre



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