

Enclosed type
digital water
meters

Dry and wet type
water meters

Digital
water meters

• Single-jet (Remote controlled) water meters



Single-jet dry type water meters



Single-jet dry type water meters
(Remote controlled)

Dimension

Item	15	20	25
Meter length L(mm)	110	130	130
Meter height H(mm)	78	81	87
Meter width W(mm)	79	79	79

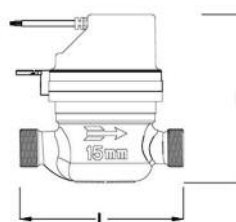
Performance

Flux(m³/h) \ Standard(mm)		15	20	25
Minimum flux (Q1)±2%		1.6	2.5	4.0
Flux variation (Q₂)	Flux ratio Q₂/Q₁	6.3	6.3	6.3
±2%	Flux	0.252	0.394	0.63
Minimum flux (Q₂)	Flux ratio Q₃, Q₁	40	40	40
+5%	Flux	0.04	0.0625	0.1

Products' features

- The water flow will turn on the reed switch through the magnetic element embedded in the meter, generating electric pulses. The metering takes place easily thanks to a principle that the data of the flow that goes through will be transmitted to the indicator when individual pulses are generated.
- These products can be used easily for the remote-controlled and collective metering

Exterior shape



Specifications

Usage	Drinking water (Water supply)
Working temperature	0.3~30℃
Working pressure	0.3~10bar
Precision	Q: ±5%, Q ₂ , Q ₃ : ±2%
Installing posture	Horizontal installation (H)

• Remote indicator



Buried pulse type
indicator (DIS00A)



Exposed pulse type
indicator (DIS00B)

Indicator's standards

Item	Length	Height	Width
Remote indicator (Buried)	82.6	72.7	31.2
Indicator cover (Buried)	120	140	-
Remote indicator (Exposed)	120	140	22

Indicators' features

- No need for an additional external power supply as a high performance battery is used.
- The lifetime of the indicator's battery is extended as much as possible in order for it to be used for longer than the valid period set, according to the calibration, in standard conditions.
- Even when the battery runs out of power, the measured value will not be gone as the existing value will be kept.

Specification

Item	Specificaion
Power	DC3.6V(Lithium)
Working ambient temperatures	-10~40℃
Max. indication volume	99999.99m ³
Min. indication volume	10L / Pulse
Transmitting wire length	1m(Ordered specification)

AMR

(Automated Meter Reading)

Digital Water Meter

- Won the presidential citation in the invention section.
- Won a prize in the Jangyeongsil Science & Culture award.
- Won a grand prize in the Good Company award.
- Acquired the KS certificate (KS B 50049-1).
- Won a prize in the Vision Company award.
- Won a prize in the Master Brand award.



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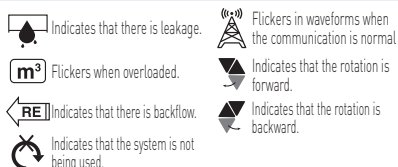
Dry and wet type
water meters

Digital
water meters

• Enclosed type digital water meters



The meter's LCD



• Specification comparison between separable water meters and enclosed type water meters

- Strongly resistant to physical impacts compared with separable type water meters.
- Strongly resistant to breaking due to cold weather compared with separable type water meters
- Excellent precision compared with separable type water meters.

Products' features

- Strongly resistant to physical impacts, and with a comparatively small flow chamber, as the housing covers the operating section.
- The operating section is covered with 3 layers, packing, welding and mechanical sealing, which provides a superb waterproof effect.
- Strongly resistant to breaking due to cold weather as the flow chamber is comparatively small in terms of volume.
- No slip in high-volume flow.
- The upper protection cover helps prevent foreign substances from infiltrating and damage from taking place
- Provides precision in low-volume flow.
- Can be produced as a product with the back flow protection type.
- Developed in structures the most suitable for the product models in Korea, including 13, 20, 25, 32, 40 and 50mm sizes.
- Capable of displaying the instant flow (m^3/h . The indicator is optional)

Dimension

Item	15	20	25	32	40	50
Meter length L(mm)	165	190	225	230	245	305
Meter height H(mm)	112	121	125	127	137	160
Screw for connection the meter D (inch)	PF 3/4	PF 1	PF 1 1/4	PF 1 1/2	PF 2	PF 2 1/2
Screw for installing and connection d(inch)	PT 1/2	PT 3/4	PT 1	PT 1 1/4	PT 1 1/2	PT 2
Meter width W(mm)	88	98	98	98	117	138

Performance

Flux(m^3/h) \ Standard(mm)	15	20	25	32	40	50
Minimum flux (Q_1) $\pm 2\%$	1.6	2.5	4.0	6.3	10	16
Flux variation (Q_2)	Flux ratio Q_2/Q_1	6.3	6.3	6.3	6.3	6.3
$\pm 2\%$	Flux	0.1	0.158	0.252	0.397	0.63
Minimum flux (Q_2)	Flux ratio Q_3, Q_1	100	100	100	100	100
$\pm 5\%$	Flux	0.016	0.025	0.04	0.063	0.1

Specifications

Usage	Drinking water (top water)
Working temperature	0.3~30°C
Working pressure	0.3~10bar
Precision	$Q: \pm 5\%$, $Q_2, Q_3: \pm 2\%$
Installing posture	Horizontal installation (H)
Min./Max. flow indication	Yes
Power	20~40mm : 0.1/ 99.999
Communication method	DPLC method. Pulse output is possible

Terminology

- **Max. flow(Q_3):** The maximum flow that can be measured without the meter exceeding the allowed tolerance.
- **Variable flow (Q_2):** The flow that separates the area with a high allowed tolerance and the other area with a low allowed tolerance.
- **Min. flow(Q_1):** The minimum flow that can be measured without the meter exceeding the allowed tolerance (Flow rate = Magnification = Q_3/Q_1).

• Separable type digital water meters



Products' features

- Multi-jet structure in which the operating section and the flow section are separable.
- The height is comparatively low.
- Possible to read directly from the indicator of the meter.
- In case of the products with the function of prevention of breaking due to cold weather, the function is embedded inside the meter.
- Can measure flow even when the flow is low as there is no driving section.
- Capable of displaying the instant flow (m^3/h . The indicator is optional).
- Can be produced as a product with the back flow protection type.
- Developed in structures the most suitable for the product models in Korea, including 13, 20, 25, 32, 40 and 50mm sizes.
- Capable of displaying the instant flow (m^3/h . The indicator is optional).

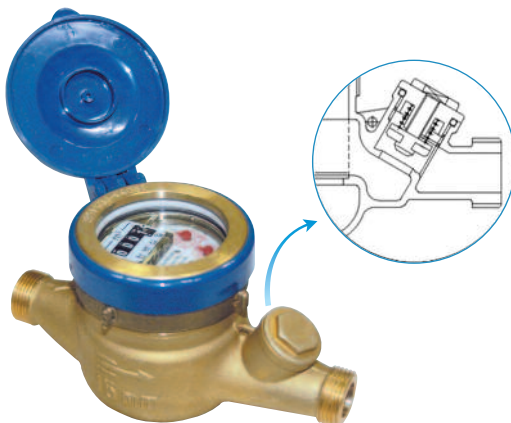
• Tangent flow impeller type water meter



Products' features

- Sensitivity in low-volume flow is enhanced as attachment of impurities on the magnetic element of the flow chamber is minimized
- The phenomena of no movement and slip can be prevented even when outside magnetic power is applied as a plate for shielding the outside magnetic power is installed.
- The pressure difference can be maintained stably as there will be no impact from a change in the water pressure due to the separation of the flow chamber and the indicator.
- The performance is stable and the lifetime is long as the complex driving part (Gears) is completely shut from the flowing water.
- Measurement will be accurate in micro-volume flow as the sensitivity and precision levels are enhanced.
- Strongly resistant to breaking due to cold weather as water will not infiltrate the indicator.
- Can be produced as a product with the back flow protection type.

• Tangent flow impeller type water meter - Wet type (Backflow prevention type)



Products' features

- Excellent in corrosion-resistance, abrasion-resistance and tensile strength.
- Its material can be reused as there will be no corrosion due to dezincification when used for a long duration.
- Measurement will be accurate in micro-volume flow as the sensitivity and precision levels are enhanced.

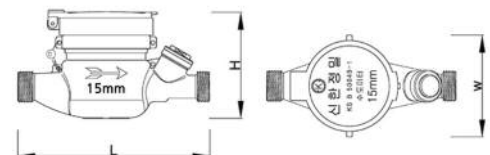
When the backflow prevention type is requested

- The water meter's main body has a cutoff plate that has an embedded check unit will help prevent the backflow.
- Even when the water flow stops, accurate measurement can take place as instant backflow will be prevented.
- It will help prevent civil complaints that would occur when the meter counter goes up to 9,999 tons when the meter is installed in the reverse direction or when the backflow of air pressure, and also help calculate the water flow.

Performance

Item		15mm		20mm		25mm		32mm		40mm		50mm	
		Dry type	Wet type	Dry type	Wet type	Dry type	Wet type	Dry type	Wet type	Dry type	Wet type	Dry type	Wet type
Performance	Q _s	165	190	225	230	245	305						
	Q ₂	0.101	0.064	0.158	0.1	0.252	0.16	0.252	0.252	0.4	0.64		
	Q ₁	0.016	0.025	0.04	0.04	0.04	0.04	0.063	0.063	0.1	0.16		
	Q ₃ /Q ₁	100	100	100	100	100	100	100	100	100	100		
	Q ₂ /Q ₁	6.3	4	6.3	4	6.3	4	4	4	4	4		
Precision		Small current area(Q ₁ ≤Q<Q ₂) = ±5%, Large current area(Q ₂ ≤Q<Q ₃) = ±2%											

Exterior shape



Dimension

Item	15mm		20mm		25mm		32mm		40mm		50mm	
	Dry type	Wet type	Dry type	Wet type	Dry type	Wet type	Dry type	Wet type	Dry type	Wet type	Dry type	Wet type
Meter length L(mm)	165	190	225	230	245	305						
Meter height H(mm)	94	110	114	103	114	108	139	112	126	156		
Connection pipe	PF 1/2	PF 3/4	PF 1	PF 1 1/4	PF 1 1/2	PF 2						
Inlet and outlet screw threads	PF 3/4	PF 1	PF 1 1/4	PF 1 1/2	PF 2	PF 2 1/2						
Meter width W(mm)	88	97	97	97	117	134						

Specifications

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Min./Max. flow indication	Yes