

DAEHAN WATER METER

Material Approval Documents



MD Digital water meter

MD Water meter

Water meter

Remote meter reading terminal-integrated water meter

Remote meter reading device

Large water meter

DHG DAEHAN METER TECH CO.,LTD.

www.dhmeter.co.kr



a factory view



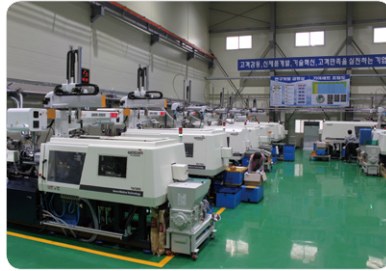
Electronic automatic water meter testbench 1,6
(Metrological Class horizontal R100 to R200) (15 to 50mm)



Electronic automatic water meter testbench 1,6
(Metrological Class horizontal R100 to R200) (15 to 50mm)



Water meter casting production processing facility



Plastic Injection molding facilities



water meter parts mold



Self-produced water meter exhibition hall



Self-produced water meter exhibition hall



Constant temperature and humidity test chamber
(for freezing prevent product)

We sincerely thank our esteemed customers who have trusted and chosen DEAHAN and the business partners who have overcome numerous hardships and difficulties together to reach this point.

For over 30 years, we have been producing metering equipment and parts such as water meters and external covers through casting, injection molding, and machining in the water meter industry. With our accumulated experience and technical expertise, DEAHAN has become a leading manufacturer and distributor of water meters.

With our management philosophy of "putting quality first," we promise to do our best to become a top-notch company that instills trust in our customers. All of our employees will work together with one heart and one mind to achieve this goal. We moved to a new location in January 2020, and we promise to continue striving for quality and developing new products.

Thank you,
Employees of DEAHAN

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MD Multi-jet Dry Water Meter

MD Type : 15, 20, 25, 32, 40, 50mm



Performance and Dimensions

| Specification(mm) | Unit | 15 | 20 | 25 | 32 | 40 | 50 |
|----------------------------|------|--------|--------|----------|----------|----------|----------|
| Q3/Q1 R | | 100 | 100 | 100 | 100 | 100 | 100 |
| Starting flow | L/h | 6 | 10 | 12 | 15 | 30 | 50 |
| Q1 | m³/h | 0,025 | 0,04 | 0,063 | 0,1 | 0,16 | 0,25 |
| Q2 | m³/h | 0,04 | 0,064 | 0,1 | 0,16 | 0,256 | 0,4 |
| Q3 | m³/h | 2,5 | 4 | 6,3 | 10 | 16 | 25 |
| Maximum indication | m³ | 9,999 | | | 99,999 | | |
| Length | mm | 165 | 190 | 225 | 230 | 245 | 305 |
| Height | mm | 100 | 109 | 114 | 116 | 130 | 155 |
| Width | mm | 95 | 100 | 100 | 100 | 117 | 138 |
| Meter connection screws | inch | PF 3/4 | PF 1 | PF 1 1/4 | PF 1 1/2 | PF 2 | PF 2 1/2 |
| Mounting connection screws | inch | PT 1/2 | PT 3/4 | PT 1 | PT 1 1/4 | PT 1 1/2 | PT 2 |

■ Installation Conditions : Horizontal ■ Maximum operating pressure : 10 bar ■ Maximum operating temperature : up to 30

Multi-jet Dry Water Meter

Attachment 1. Multi-Jet Dry Water Meter & Components

별첨 1. 복갑건식 수도미터 및 구성품

| | | |
|--|---|---|
|   <p>Brand : Daehan</p> <ul style="list-style-type: none"> - OIML R49 and ISO 4064 standard - Model : DAE HAN - Origin : Korea - Kind of water meter : Multi-jet Dry Water Meter - Dimension : <ul style="list-style-type: none"> • DN15, length: 165 mm [Q3 : 2.5m³/h, Q2/Q1:1.6(±2.0%), Q3/Q1:100(±5.0%)] - Material : Brass + Stainless - Working temperature : up to 30°C - Working pressure : up to 10bar | 상세내역 Components | |
| | 상부외갑 Upper Body | 하부외갑 Lower Body |
| |  |  |
| | 내갑세트 Internal Parts | 조작방지캡 Tamper proof cap |
| 표기사항 Name Plate Display | | |
|  | | |

Multi-jet Wet Water Meter

Water meter Wet : 15, 20, 25, 32, 40, 50mm



Performance and Dimensions




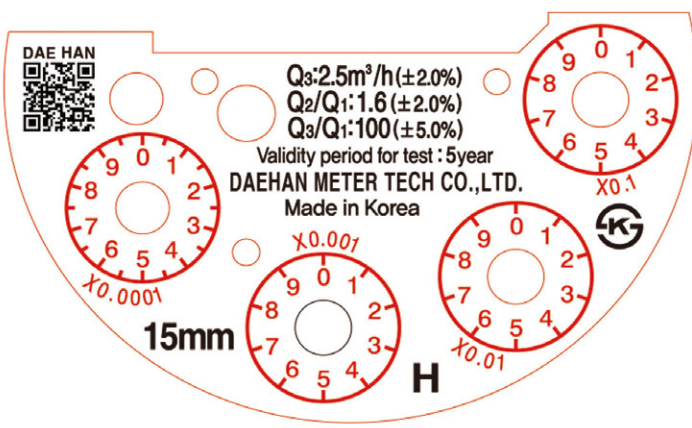
| Specification(mm) | Unit | 15 | 20 | 25 | 32 | 40 | 50 |
|----------------------------|------|--------|--------|----------|----------|----------|----------|
| Q3/Q1 R | | 100 | 100 | 100 | 100 | 100 | 100 |
| Starting flow | L/h | 6 | 10 | 12 | 15 | 30 | 50 |
| Q1 | m³/h | 0.025 | 0.04 | 0.063 | 0.1 | 0.16 | 0.25 |
| Q2 | m³/h | 0.04 | 0.064 | 0.1 | 0.16 | 0.256 | 0.4 |
| Q3 | m³/h | 2.5 | 4 | 6.3 | 10 | 16 | 25 |
| Maximum indication | m³ | 9,999 | | | 99,999 | | |
| Length | mm | 165 | 190 | 225 | 230 | 245 | 305 |
| Height | mm | 100 | 109 | 114 | 116 | 130 | 155 |
| Width | mm | 95 | 100 | 100 | 100 | 117 | 138 |
| Meter connection screws | inch | PF 3/4 | PF 1 | PF 1 1/4 | PF 1 1/2 | PF 2 | PF 2 1/2 |
| Mounting connection screws | inch | PT 1/2 | PT 3/4 | PT 1 | PT 1 1/4 | PT 1 1/2 | PT 2 |

■ Installation Conditions : Horizontal ■ Maximum operating pressure : 10 bar ■ Maximum operating temperature : up to 30

Multi-jet Wet Water Meter

Attachment 2. Multi-Jet Wet Water Meter & Components

별첨 2. 복갑습식 수도미터 및 구성품

| | | |
|--|--|---|
|  <p>Brand : Daehan</p> <ul style="list-style-type: none"> - OIML R49 and ISO 4064 standard - Model : DAE HAN - Origin : Korea - Kind of water meter : Multi-jet Wet Water Meter - Dimension : <ul style="list-style-type: none"> • DN15, length: 165 mm [Q3 : 2.5m³/h, Q2/Q1 : 1.6(±2.0%), Q3/Q1 : 100(±5.0%)] - Material : Brass + Stainless - Working temperature : up to 30°C - Working pressure : up to 10bar | 상세내역 Components | |
| | 상부외갑 Upper Body | 하부외갑 Lower Body |
| |  |  |
| | 내갑세트 Internal Parts | 조작방지캡 Tamper proof cap |
| 표기사항 Name Plate Display | | |
|  <p>DAE HAN</p> <p>Q₃:2.5m³/h(±2.0%) Q₂/Q₁:1.6(±2.0%) Q₃/Q₁:100(±5.0%) Validity period for test : 5year DAEHAN METER TECH CO.,LTD. Made in Korea</p> <p>15mm H</p> | | |

Multi-jet Dry Digital Water Meter

Water Meter MD Dry : 15, 20, 25, 32, 40, 50mm



Performance and Dimensions




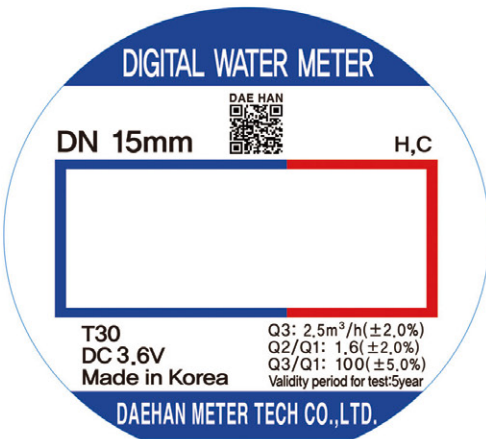
| Specification(mm) | Unit | 15 | 20 | 25 | 32 | 40 | 50 |
|----------------------------|------|--------|--------|----------|----------|----------|----------|
| Q3/Q1 R | | 100 | 100 | 100 | 100 | 100 | 100 |
| Starting flow | L/h | 6 | 10 | 12 | 15 | 30 | 50 |
| Q1 | m³/h | 0.025 | 0.04 | 0.063 | 0.1 | 0.16 | 0.25 |
| Q2 | m³/h | 0.04 | 0.064 | 0.1 | 0.16 | 0.256 | 0.4 |
| Q3 | m³/h | 2.5 | 4 | 6.3 | 10 | 16 | 25 |
| Maximum indication | m³ | 9,999 | | | 99,999 | | |
| Length | mm | 165 | 190 | 225 | 230 | 245 | 305 |
| Height | mm | 100 | 109 | 114 | 116 | 130 | 155 |
| Width | mm | 95 | 100 | 100 | 100 | 117 | 138 |
| Meter connection screws | inch | PF 3/4 | PF 1 | PF 1 1/4 | PF 1 1/2 | PF 2 | PF 2 1/2 |
| Mounting connection screws | inch | PT 1/2 | PT 3/4 | PT 1 | PT 1 1/4 | PT 1 1/2 | PT 2 |

■ Installation Conditions : Horizontal ■ Maximum operating pressure : 10 bar ■ Maximum operating temperature : up to 30

Multi-jet Dry Digital Water Meter

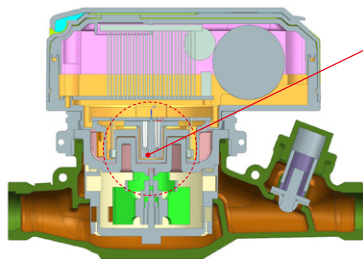
Attachment 3. Multi-jet Dry Digital Water Meter & Components

별첨 3. 복갑건식 디지털 수도미터 및 구성품

| | | |
|--|---|--|
|  <p>Brand : Daehan</p> <ul style="list-style-type: none"> - OIML R49 and ISO 4064 standard - Model: DAE HAN - Origin : Korea - Kind of water meter : Multi-jet Dry Digital Water Meter - Dimension : <ul style="list-style-type: none"> • DN15, length: 165 mm [Q3 : 2.5m³/h, Q2/Q1:1.6(±2.0%), Q3/Q1:100(±5.0%)] - Material : Brass - Working temperature: up to 30°C - Working pressure: up to 10 bar | 상세내역 Components | |
| | 상부외갑 Upper Body | 하부외갑 Lower Body |
| |  |  |
| | 내갑세트 Internal Parts | 조작방지캡 Tamper proof cap |
| |  |  |
| 전자지시부 LCD Display with Electric Parts | | |
|  | | |
| 표기사항 Name Plate Display | | |
|  | | |

Digital Non-Magnetic Integrated Water Meter

15, 20, 25, 32, 40, 50mm



Patent Application
New Product New Technology



Patented product
Prevention of backflow microflow cutoff

Product Features

- A non-magnetic integrated water meter with digital terminals, eliminating the use of traditional MR sensor magnets, making it impossible for fraudulent use even with strong external magnets.
- Prevents backflow and blocks fine flow 100% (based on Seoul standards).
- Built-in wireless communication for easy meter reading, economical operation, and extended battery life.
- Digitally integrated for easy installation and maintenance with a one-stop service system.
- Remote meter reading capability leading to reduced installation costs (by 50%).
- Equipped with anti-freezing function to prevent damages caused by freezing in winter.
- Fully waterproof display unit (IP 68) allowing usage even in areas prone to flooding.
- No communication cables reducing communication errors and facilitating maintenance.

Development of Digital Non-Magnetic Integrated Water Meter (15mm~50mm)

Overview

Overview A non-magnetic integrated water meter that does not utilize MR sensor magnets, making it impossible for fraudulent use even with strong external magnets. (15mm~50mm)

Improvements

- Integration of temperature data collection for freeze prevention.
- Incorporation of magnetic field detection for prevention of water meter misuse.
- Adoption of Seoul standard protocol.
- Improvement in water resistance and 100% flow rate accuracy.
- Testing of magnets within the range of 4000~10000 gauss.
- Integration of NFC functionality for maintenance and management automation.

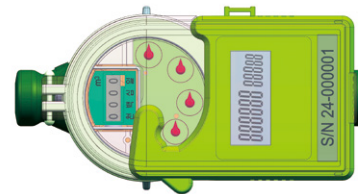
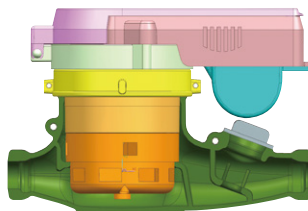
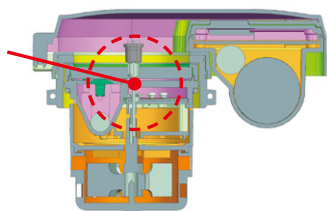
Performance and Dimensions

| Standard(mm) | | Unit | 15 | 20 | 25 | 32 | 40 | 50 |
|-------------------------------------|---------|------|----------------|-----------|----------|-----------|----------|----------|
| Q3/Q1 R | | | 100 | 100 | 100 | 100 | 100 | 100 |
| Starting Flow Rate | | L/h | 6 | 10 | 12 | 15 | 30 | 50 |
| Minimum Flow Rate (Q1) | ± 5.0 % | m³/h | 0.016 | 0.025 | 0.04 | 0.063 | 0.1 | 0.16 |
| Transition Flow Rate(Q2/Q1 R) : 1.6 | ± 2.0 % | m³/h | 0.0256 | 0.04 | 0.064 | 0.1008 | 0.16 | 0.256 |
| Maximum Flow Rate(Q3) | ± 2.0 % | m³/h | 1.6 | 2.5 | 4.0 | 6.3 | 10 | 16 |
| Optimal Usage Flow Range | | m³/h | 0.016~1.2 | 0.025~1.2 | 0.04~1.5 | 0.063~3.0 | 0.1~5.0 | 0.16~8.0 |
| Maximum Indicated Volume | | m³ | 999,999.999 99 | | | | | |
| Meter Length | L | | 165 | 190 | 225 | 230 | 245 | 305 |
| Meter Height | H | | 100 | 109 | 114 | 116 | 130 | 155 |
| Meter Width | W | | 95 | 100 | 100 | 100 | 117 | 138 |
| Meter Connection Screw | D | | PT 3/4 | PF 1 | PT 1 1/4 | PF 1 1/2 | PF 2 | PF 2 1/2 |
| Installation Connection Screw | (inch) | | PT 1/2 | PT 3/4 | PT 1 | PT 1 1/4 | PT 1 1/2 | PT 2 |

- Installation Conditions : Horizontal ■ Maximum operating pressure : 10 bar ■ Maximum operating temperature : up to 30

Double-dampable non-magnetic terminal integrated water meter

15, 20, 25, 32, 40, 50mm



Product Features

- This water meter is an encapsulated wet type non-magnetic hybrid meter, which eliminates the use of magnets typically found in conventional MR sensor-based meters, rendering it tamper-proof against strong external magnets.
- It features a hybrid design with both analog and digital measurement displays, ensuring both user-friendliness and reliability.
- Guarantees backflow prevention and 100% blockage of fine flow (based on Seoul standards).
- Built-in wireless communication enables easy and economical meter reading, extending battery life significantly.
- The encapsulated wet type hybrid design facilitates easy installation and implements a one-stop service system for maintenance.
- Remote meter reading capability leads to cost savings in installation (up to 50%).
- Equipped with frost prevention functionality to prevent damage during winter freezes.
- Its display unit is completely waterproof (IP 68), making it suitable for use even in areas prone to frequent flooding.
- With no communication cables, the likelihood of communication errors decreases, making maintenance convenient.

Development of Encapsulated Wet Type Non-magnetic Hybrid Water Meter (15mm~50mm)

Overview

This water meter, as a non-magnetic type, renders tampering with strong external magnets impossible, making it highly secure against unauthorized usage (15mm~50mm).

Improvements

- Integration of temperature data collection for frost prevention.
- Inclusion of magnetic field detection to prevent meter tampering.
- Enhancement of anti-corrosion and 100% water rate efficiency.
- Adoption of Seoul city standard protocols.
- Incorporation of NFC functionality for maintenance and management automation.
- Testing magnetic strength ranging from 4000 to 10000 gauss.
- Reduction in frequency of complaints during billing.

Performance and Dimensions

| Standard(mm) | | Unit | 15 | 20 | 25 | 32 | 40 | 50 |
|-------------------------------------|---------|------|----------------|-----------|----------|-----------|----------|----------|
| Q3/Q1 R | | | 100 | 100 | 100 | 100 | 100 | 100 |
| Starting Flow Rate | | L/h | 6 | 10 | 12 | 15 | 30 | 50 |
| Minimum Flow Rate(Q1) | ± 5.0 % | m³/h | 0.016 | 0.025 | 0.04 | 0.063 | 0.1 | 0.16 |
| Transition Flow Rate(Q2/Q1 R) : 1:6 | ± 2.0 % | m³/h | 0.0256 | 0.04 | 0.064 | 0.2008 | 0.16 | 0.256 |
| Maximum Flow Rate(Q3) | ± 2.0 % | m³/h | 1.6 | 2.5 | 4.0 | 6.3 | 10 | 16 |
| Optimal Usage Flow Range | | m³/h | 0.016~1.2 | 0.025~1.2 | 0.04~1.5 | 0.063~3.0 | 0.1~5.0 | 0.16~8.0 |
| Maximum Indicated Volume | | m³ | 999,999.999 99 | | | | | |
| Meter Length | L | | 165 | 190 | 225 | 230 | 245 | 305 |
| Meter Height | H | | 100 | 109 | 114 | 116 | 130 | 155 |
| Meter Width | W | | 95 | 100 | 100 | 100 | 117 | 138 |
| Meter Connection Screw | D | | PT 3/4 | PF 1 | PT 1 1/4 | PF 1 1/2 | PF 2 | PF 2 1/2 |
| Installation Connection Screw | (inch) | | PT 1/2 | PT 3/4 | PT 1 | PT 1 1/4 | PT 1 1/2 | PT 2 |

■ Installation Conditions : Horizontal ■ Maximum operating pressure : 10 bar ■ Maximum operating temperature : up to 30

Multi-jet Dry Digital non-magnetic water meter with backflow prevention



Multi-jet Dry Digital non-magnetic water meter with backflow prevention/freeze protection featuring tamper-proof cap with transparent magnifying lens.

Product Features

- Utilizes MR sensor technology, rendering it immune to fraudulent use with external strong magnets.
- Allows measurement without susceptibility to external magnetic interference.
- Economic and convenient meter reading with a non-magnetic water meter, extending battery life.
- Enables remote meter reading, providing economic benefits.
- Equipped with freeze prevention function to preempt winter frost damage.
- Fully waterproof display unit (IP68), suitable for frequent flooding areas.
- Electronic display unit rated as Grade C, resistant to freezing conditions.
- Reinforced with PPS (polyphenylene sulfide) for enhanced frost resistance.
- Incorporates a backflow prevention device, ensuring complete blockage of reverse flow even at microflow

Development of Multi-jet Dry Digital Non-Magnetic Water Meter(15mm~50mm)

Overview

As a Multi-jet Dry Digital non-magnetic water meter, it does not use MR sensor-type magnets, so it Accessing strong magnets from the outside does not interfere at all. It is a water meter that cannot be used illegally (15mm~50mm)

Improvements

- Equipped with temperature data collection to prevent freezing
- Includes magnet detection feature to prevent unauthorized meter tampering.
- Enhances quality to achieve anti-fouling and 100% flow rate accuracy.
- Ensures magnets pass rigorous testing (4000~10000 gauss, denoted as G).

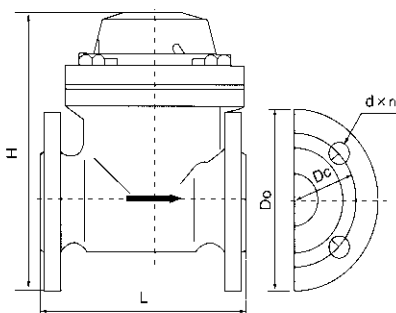
Performance and Dimensions

| Standard(mm) | | Unit | 15 | 20 | 25 | 32 | 40 | 50 |
|--------------------------------------|---------|------|----------------|-----------|----------|-----------|----------|----------|
| Q3/Q1 R | | | 100 | 100 | 100 | 100 | 100 | 100 |
| Starting Flow Rate | | L/h | 6 | 10 | 12 | 15 | 30 | 50 |
| Minimum Flow Rate (Q1) | ± 5.0 % | m³/h | 0.016 | 0.025 | 0.04 | 0.063 | 0.1 | 0.16 |
| Transition Flow Rate(Q2/Q1 R) : 1.6 | ± 2.0 % | m³/h | 0.0256 | 0.04 | 0.064 | 0.1008 | 0.16 | 0.256 |
| Maximum Flow Rate(Q3) | ± 2.0 % | m³/h | 1.6 | 2.5 | 4.0 | 6.3 | 10 | 16 |
| Optimal Usage Flow Range | | m³/h | 0.016~1.2 | 0.025~1.2 | 0.04~1.5 | 0.063~3.0 | 0.1~5.0 | 0.16~8.0 |
| Maximum Indicated Volume | | m³ | 999,999.999 99 | | | | | |
| Meter Length | L | | 165 | 190 | 225 | 230 | 245 | 305 |
| Meter Height | H | | 100 | 109 | 114 | 116 | 130 | 155 |
| Meter Width | W | | 95 | 100 | 100 | 100 | 117 | 138 |
| Meter Connection Screw | D | | PT 3/4 | PF 1 | PT 1 1/4 | PF 1 1/2 | PF 2 | PF 2 1/2 |
| Installation Connection Screw (inch) | | | PT 1/2 | PT 3/4 | PT 1 | PT 1 1/4 | PT 1 1/2 | PT 2 |

- Installation Conditions : Horizontal ■ Maximum operating pressure : 10 bar ■ Maximum operating temperature : up to 30

Eco-friendly water meter (Stainless highly-sensitive large water meter)

● 40, 50, 80, 100, 150, 200, 250, 300mm



Stainless highly-sensitive large water meter

Digital Large Cast Iron High Sensitivity Water Meter

Characteristic

- Being developed with new material, it has longer durability compared with other product thanks to elasticity of material in spite of water impact.
- Being manufactured with stainless material,
 - it has no toxicity and does not react to harmful chemicals.
 - it has strong corrosion-resistance internally and externally.
- Having excellent abrasion-resistance, it has permanent durability and it is eco-friendly product which can be recycled.
- It has smart appearance thanks to suitable surface treatment.
- It has high hardness and longer durability compared with other product.
- It is possible to install at any angle, i.e. horizontal, vertical or sloping surface.
- Bubble is entirely eliminated because indicating unit is perfectly sealed (IP 68 Grade).
- Rotating rotor is applied which maintain balance according to hydrodynamics.
- Reading is easy because indicating unit can rotate by 360°.
- Durability is increased thanks to overload resistance function.

Performance Table

| Bore dimension | mm | 40 | 50 | 80 | 100 | 150 | 200 | 250 | 300 |
|--------------------------------|---|------------------|-------|-------|------|---------|------|-------|------|
| Qmax(Q4) | Overload quantity of flow (m³/h) | 78.75 | 78.75 | 125 | 200 | 312.5 | 560 | 787.5 | 1250 |
| | One time among 24hours | | | | | | | | |
| | in Q max or 1,2xQmax(±2%) within 5minutes | | | | | | | | |
| Qn(Q3) | Maximum Flow Rate(±2%) (m³/h) | 63 | 63 | 100 | 160 | 250 | 400 | 630 | 1000 |
| Qn(Q2) | Transitional Flow Rate(±2%) (m³/h) | 0.8 | 0.8 | 1.0 | 1.6 | 3.2 | 5.12 | 10.08 | 16.0 |
| Qmin(Q1) | Minimum Flow Rate(±5%) (m³/h) | 0.5 | 0.5 | 0.625 | 1.0 | 2.0 | 3.2 | 6.3 | 10.0 |
| | Starting Flow Rate (m³/h) | 0.30 | 0.30 | 0.35 | 0.40 | 1.0 | 1.5 | 3.0 | 8.0 |
| Maximum instruction volume(m³) | | 999,999 | | | | 999,999 | | | |
| Minimum instruction volume(ℓ) | | 1 ℓ | | | | 10 ℓ | | | |
| Operating Condition | | Up to 30 degrees | | | | | | | |

Terminal integrated Large water meter (Remote meter reading)

Type : 65, 80, 100, 150, 200, 250, 300mm



Performance

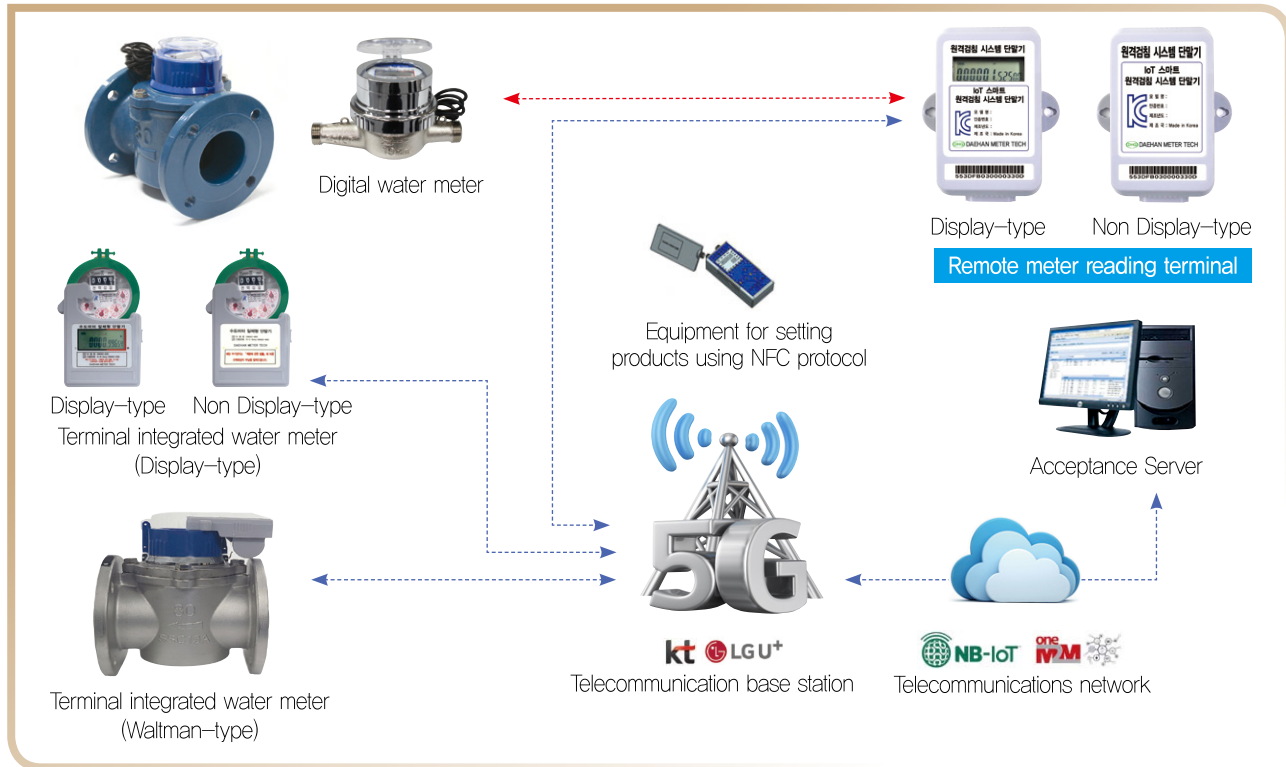
| Dimension | mm | 40 | 50 | 65 | 80 | 100 | 150 | 200 | 250 | 300 |
|--------------------------------|--|-------------------------|-------|-------|-------|------|---------|------|-------|------|
| Qmax(Q4) | Overload quantity of flow (m³/h) 24시간중 Qmax에서 1회 또는 1.2XQmax(±2%)5분이내) | 78.75 | 78.75 | 78.75 | 125 | 200 | 312.5 | 560 | 787.5 | 1250 |
| Qmax(Q3) | Maximum Flow Rate (±2%) (m³/h) | 63 | 63 | 63 | 100 | 160 | 250 | 400 | 630 | 1000 |
| Qmax(Q2) | Transitional Flow Rate(±2%) (m³/h) | 0.8 | 0.8 | 0.8 | 1.0 | 1.6 | 3.2 | 5.12 | 10.08 | 16.0 |
| Qmax(Q3) | Minimum Flow Rate(±5%) (m³/h) | 0.5 | 0.5 | 0.5 | 0.625 | 1.0 | 2.0 | 3.2 | 6.3 | 10.0 |
| | Starting Flow Rate (m³/h) | 0.30 | 0.30 | 0.30 | 0.35 | 0.40 | 1.0 | 1.5 | 3.0 | 8.0 |
| Maximum instruction volume(m³) | | 999,999 | | | | | 999,999 | | | |
| Minimum instruction volume(ℓ) | | 1ℓ | | | | | 10ℓ | | | |
| Operating condition | | For tap water Up to 30℃ | | | | | | | | |

Dimensions and Weight

| Division | | | Diameter | | | | | | | | | |
|----------------|----------------|---|----------|-------|-------|-------|-------|-------|------|------|------|------|
| | | | mm | 40 | 50 | 65 | 80 | 100 | 150 | 200 | 250 | 300 |
| Specifications | Width | L | mm | 220 | 200 | 200 | 206 | 241 | 300 | 350 | 450 | 500 |
| | Height | H | mm | 120 | 120 | 120 | 150 | 150 | 177 | 206 | 470 | 485 |
| Weight | Water meter | | kg | 7.7 | 7.7 | 7.7 | 14 | 18.0 | 35.5 | 50.5 | 72.3 | 155 |
| | Internal Parts | | kg | 0.336 | 0.336 | 0.336 | 0.336 | 0.336 | 1.17 | 1.17 | 1.17 | 1.17 |
| | Body | | kg | 8.9 | 9.8 | 11 | 15 | 18.3 | 34.5 | 48.5 | 82.5 | 91.8 |

Remote meter reading solution

Smart remote meter reading solution (configuration diagram)



Product introduction

Smart meter reading terminal



- Model : SWED-350
- Wireless auto smart terminal
- NB-IoT network communication technology
- KT/LGU+ Network
- Landfill type
- Communication method : NB-IoT, UART
- MCU : 16bit Programmable
- Power : 3.6V 19000mAh Lithium Battery
- Transmission Output : 23dBm
- Waterproof rating : IP 68
- Size : 46(D)x113(W)x137(H) mm



- Model : SWED-360
- Wireless auto smart terminal
- NB-IoT network communication technology
- KT/LGU+ Network
- Landfill type
- Communication method : NB-IoT, UART
- MCU : 16bit Programmable
- Power : 3.6V 19000mAh Lithium Battery
- Transmission Output : 23dBm
- Waterproof rating : IP 68
- Size : 46(D)x113(W)x137(H) mm

Wire Display-type terminal (for Digital water meter)



- Wired connection to Digital water meter
- Remote communication is not supported
- Installation in a location easy for reading (outdoor)
- Field worker visual inspection (non-contact inspection)
- Wireless Automatic Smart meter reading pre-step solution
- Communication method : UART, TTL type
- MCU : Low Power MCU
- Power : 3.6V Lithium Battery
- Waterproof rating : IP 67
- Size : 40(D)x115(W)x170(H) mm

Electronic automatic constant temperature and humidity test chamber for testing freeze proof water meter

● MW Type : 15(13), 20, 25, 32, 40, 50mm

- Waterworks Headquarters Waterworks Research Institute's Performance Test of Manual Metrology to Prevent Freezing (a product that is cooled for 48 hours at -20°C and repeatedly passed 16 times of hot water thawing)
- Digital Water Meter Electromagnetic Discharge and Performance Test



Freezing test



Constant temperature and humidity test chamber

Multi-jet dry Digital water meter
(freezing test passed product)



Multi-jet wet water meter
(freezing test passed product)



Multi-jet-dry water meter
(freezing test passed product)



Dry water meter/hot water meter for remote heating (long and short length)

●MD Dry Type : 15, 20, 25mm

The remote heating hot water meter is used for apartments, officetels, shopping malls, etc
It is used in heating systems using hot water circulation.



long for remote heating
hot water meter 110 mm



Hot water meter single
pack length 110 mm



Bokjang Hot Water
Meter Length 165 mm

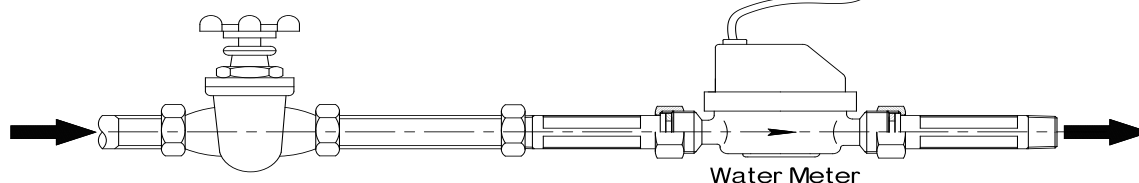
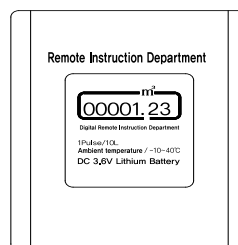
It is convenient to install and construct even in a narrow space and can prevent accidents such as freezing.



Remote water meter length 110 mm



Dry monogap water meter length 110 mm



Field piping installation example

Union pipe nut piping (dimension)



Water Angle Decompression Valve
Digital Water Meter Piping Assembly



Water Angle Decompression Valve
Water Meter Piping Assembly



Water Angle Pressure Reduction Valve
MD Water Meter Piping Assembly



Water Angle Pressure Reduction Valve
MD Cold Water Meter Piping Assembly

Union Pipe Nut For Piping (Dimension)



Union Pipe Nut For Piping (Dimension)



Certificate of Business Registration

(1 / 1)

【국세청민원사무처리규정 제6호 서식】(2024.4.17.개정)



| | | | |
|---|---|--|---|
| 발급번호 Issuance Number | 사업자등록증명 Certificate of Business Registration (법인사업자) (Corporate Taxpayer) | | 처리기간 Processing Time |
| 4910-917-4634-367 | | | 즉시 Immediately |
| 상호(법인명) Name of Business | 주식회사 대한계전 DAEHAN METER TECH CO., LTD. (374-87-00649) | | |
| 사업자등록번호 Business Taxpayer ID Number | 374-87-00649 | | |
| 성명(대표자) Name of Representative | 김석태 KIM SUK TAE (124411-0196049) | | |
| 대표유형 Type of Representation | 단독대표(Sole Representation) | | |
| 주민(법인)등록번호 Resident(Corporation) Registration Number | 124411-0196049 | | |
| 사업장소재지 Business Address | 경기도 김포시 양촌읍 황금로89번길 100, 가동1층,나동2층,3층 다동1층 1st floor of Gidong, 2nd floor of Nadong, 3rd floor, and 1st floor of Dadong., 100, Hwanggeum-ro 89beon-gil, Yangcheon-eup, Gimpo-si, Gyeonggi-do, 10048, Republic of Korea | | |
| 개업일 Date of Business Start | 2017년(Year) 07월(Month) 03일(Day) | | |
| 사업자등록일 Date of Business Registration | 2017년(Year) 07월(Month) 06일(Day) | | |
| 업태 Business Type | 제조업/제조업 Manufacturing/Manufacturing | | |
| 종목 Business Item | 수도미터 및 적산열량계 Water meter and heat meter 감압밸브 및 수도용 앵글밸브 Casting of copper products | | |
| 공동사업자 Joint Business Owner | 성명(법인명) Name of Resident/Name of Business | 주민(사업자)등록번호 Resident Number/Business Taxpayer ID Number | |
| | 해당사항 없습니다 (No Data) | | |
| 위와 같이 증명합니다. I certify that above information is true and correct to the best of my knowledge and belief. ※ 위 내용은 발급일 현재 상황으로서 추후 변경될 수 있습니다. This information is true as of the issuance date of this certification and but maybe subject to change in the future. ※ 영문 임의 기재사항[상호, 성명(대표자), 업태, 종목, 상세주소]은 실제적 권리관계를 증명하는 효력이 없습니다. Arbitrary data written in English [Name of Business, Name of Representative, Business Address, Business Type, and Business Item] do not hold a power to prove substantive rights and responsibilities. | | | |
| 접수번호 Receipt No. | 504587508234 | | |
| 담당부서 Department | 민원봉사실 Taxpayer Assistance Center | | |
| 담당자 Staff in Charge | | | |
| 연락처 Telephone No. | +82-31-980-3224 | | |
| | | 2025 년(Year) 5 월(Month) 22 일(Day) | 김포세무서장 Head of Gimpo District Tax Office |
| | | | (Stamp) |

국세청



* 본 증명서의 위·변조 여부는 발급일로부터 90일 이내 「국세청 홈택스(www.hometax.go.kr) 또는 모바일 홈택스 > 민원증명(증명발급) > 민원증명 원본확인」에서 발급번호로 확인, 또는 문서 하단의 바코드로 확인이 가능합니다.
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원본대조필



Patent certificate (water meter)

CERTIFICATE OF PATENT



Patent Number 10-1752860

Application Number 10-2016-0092628

Filing Date 2016. 07. 21.

Registration 2017. 06. 26.

Title of the Invention

WATER METER

Patentee

Patentees are filled out in a registration page.

Inventor

KIM Jong Bok
(Guro-dong) 2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea

This is to certify that, in accordance with the Patent Act,
a patent for the invention has been registered at the Korean Intellectual
Property Office.



특허청
Korean Intellectual
Property Office

원본대조필 

2025. 05. 28.

COMMISSIONER,
KOREAN INTELLECTUAL PROPERTY OFFICE






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registration with QR code

Patent certificate (water meter)

REGISTRATION DETAILS

Registration 10-1752860

Patentees

DAE HAN INDUSTRY CO., LTD.(110111-***)**

81-35, Sangmasingi-ro, Daegot-myeon, Gimpo-si, Gyeonggi-do,
Korea

DAE HAN MEASURING CO., Ltd.(124411-***)**

Ga-dong 1st floor, Na-dong 2nd floor, Na-dong 3rd floor, Da-dong
1st floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si,
Gyeonggi-do, Korea

DAEHAN SMART METER CO., LTD.(124411-***)**

Na-dong 1st floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup,
Gimpo-si, Gyeonggi-do, Korea

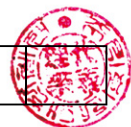
SAM WON INDUSTRY CO., LTD.(110111-***)**

2nd floor, 81-35, Sangmasingi-ro, Daegot-myeon, Gimpo-si,
Gyeonggi-do, Korea

HANYOUNG. INC(160111-***)**

38-7, Durumeori-gil, Sapgyo-eup, Yesan-gun, Chungcheongnam-do,
Korea

원본대조필



Patent Certificate (Digital Water Meter)

CERTIFICATE OF PATENT

Patent Number 10-2413107
Application Number 10-2022-0006540
Filing Date 2022. 01. 17.
Registration 2022. 06. 21.



Title of the Invention

DIGITAL WATER METER

Patentee

Patentees are filled out in a registration page.

Inventor

KIM Suk Tae

2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea

This is to certify that, in accordance with the Patent Act,
a patent for the invention has been registered at the Korean Intellectual
Property Office.

원본대조필



2025. 05. 28.



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Korean Intellectual
Property Office

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김완기



Patent Certificate (Digital Water Meter)

CERTIFICATE OF PATENT

Patent Number 10-2413107

Application Number 10-2022-0006540

Filing Date 2022. 01. 17.

Registration 2022. 06. 21.

Title of the Invention

DIGITAL WATER METER

Patentee

Patentees are filled out in a registration page.

Inventor

KIM Suk Tae

2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea

**This is to certify that, in accordance with the Patent Act,
a patent for the invention has been registered at the Korean Intellectual
Property Office.**

2025. 05. 28.



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KOREAN INTELLECTUAL PROPERTY OFFICE

원본대조필



김완기



Patent certificate (Vertical Waltman type water meter)

CERTIFICATE OF PATENT

Patent Number **10-2433655**
Application Number **10-2022-0015425**
Filing Date **2022. 02. 07.**
Registration **2022. 08. 12.**



Title of the Invention

WATER METER OF VERTICAL WALTMAN TYPE

Patentee

DAE HAN MEASURING CO., Ltd.(124411-***)**

Ga-dong 1st floor, Na-dong 2nd floor, Na-dong 3rd floor, Da-dong 1st floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

Inventor

KIM Suk Tae

2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea

**This is to certify that, in accordance with the Patent Act,
a patent for the invention has been registered at the Korean Intellectual
Property Office.**

원본대조필



2025. 05. 28.



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Patent certificate (ultrasonic water meter)

CERTIFICATE OF PATENT

Patent Number 10-2557470
Application Number 10-2022-0176223
Filing Date 2022. 12. 15.
Registration 2023. 07. 14.



Title of the Invention

ULTRASONIC WATER METER

Patentee

DAE HAN MEASURING CO., Ltd.(124411-***)**

Ga-dong 1st floor, Na-dong 2nd floor, Na-dong 3rd floor, Da-dong 1st floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

Inventor

KIM Suk Tae

2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea

**This is to certify that, in accordance with the Patent Act,
a patent for the invention has been registered at the Korean Intellectual
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김완기



Patent certificate (Digital integrated water meter with remote meter reading terminal)

CERTIFICATE OF PATENT

Patent Number 10-2557469
Application Number 10-2022-0105544
Filing Date 2022. 08. 23.
Registration 2023. 07. 14.



Title of the Invention

Meter reading terminal integrated with digital water meter

Patentee

Patentees are filled out in a registration page.

Inventor

KIM Suk Tae

2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea

This is to certify that, in accordance with the Patent Act,
a patent for the invention has been registered at the Korean Intellectual
Property Office.



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Patent certificate (Digital integrated water meter with remote meter reading terminal)

REGISTRATION DETAILS

Registration **10-2557469**

Patentees

DAE HAN MEASURING CO., Ltd.(124411-***)**

Ga-dong 1st floor, Na-dong 2nd floor, Na-dong 3rd floor, Da-dong 1st floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

DAE HAN INDUSTRY CO., LTD.(110111-***)**

81-35, Sangmasingi-ro, Daegot-myeon, Gimpo-si, Gyeonggi-do, Korea

SAM WON INDUSTRY CO., LTD.(110111-***)**

2nd floor, 81-35, Sangmasingi-ro, Daegot-myeon, Gimpo-si, Gyeonggi-do, Korea

DAEHAN SMART METER CO., LTD.(124411-***)**

Na-dong 1st floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

TaeKyung M-tech Co.,Ltd(124411-***)**

Part of Ga-dong 1st floor, Part of Na-dong 2nd floor, Da-dong 2nd floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

원본대조필



Patent certificate (Remote meter reading terminal)

| CERTIFICATE OF PATENT | |
|--|-----------------|
| Patent Number | 10-2713963 |
| Application Number | 10-2024-0032129 |
| Filing Date | 2024. 03. 06. |
| Registration | 2024. 09. 30. |
| Title of the Invention | |
| REMOTE METER READING TERMINAL | |
| Patentee | |
| Patentees are filled out in a registration page. | |
| Inventor | |
| KIM Suk Tae | |
| 2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea | |
| This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office. | |
| 원본대조필 | |
| 2025. 05. 28. | |
| COMMISSIONER, KOREAN INTELLECTUAL PROPERTY OFFICE | |
| 김완기 | |
| 특허청 Korean Intellectual Property Office | |

Patent certificate (Remote meter reading terminal)

REGISTRATION DETAILS

Registration **10-2713963**

Patentees

DAE HAN MEASURING CO., Ltd.(124411-***)**

Ga-dong 1st floor, Na-dong 2nd floor, Na-dong 3rd floor, Da-dong 1st floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

DAE HAN INDUSTRY CO., LTD.(110111-***)**

81-35, Sangmasingi-ro, Daegot-myeon, Gimpo-si, Gyeonggi-do, Korea

SAM WON INDUSTRY CO., LTD.(110111-***)**

2nd floor, 81-35, Sangmasingi-ro, Daegot-myeon, Gimpo-si, Gyeonggi-do, Korea

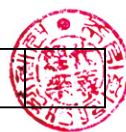
DAEHAN SMART METER CO., LTD.(124411-***)**

Na-dong 1st floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

TaeKyung M-tech Co.,Ltd(124411-***)**

Part of Ga-dong 1st floor, Part of Na-dong 2nd floor, Da-dong 2nd floor, 100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

원본대조필



Patent certificate (Terminal integrated water meter)

CERTIFICATE OF PATENT

Patent Number 10-2763076

Application Number 10-2024-0120261

Filing Date 2024. 09. 04.

Registration 2025. 01. 31.



Title of the Invention

TERMINAL INTEGRATED WATER METER

Patentee

Patentees are filled out in a registration page.

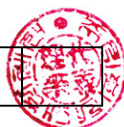
Inventor

KIM Suk Tae

2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea

This is to certify that, in accordance with the Patent Act,
a patent for the invention has been registered at the Korean Intellectual
Property Office.

원본대조필



2025. 05. 28.



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김완기



Patent certificate (Terminal integrated water meter)

CERTIFICATE OF PATENT

Patent Number 10-2763076

Application Number 10-2024-0120261

Filing Date 2024. 09. 04.

Registration 2025. 01. 31.

Title of the Invention

TERMINAL INTEGRATED WATER METER

Patentee

Patentees are filled out in a registration page.

Inventor

KIM Suk Tae

2-7, Gamasan-ro 12-gil, Guro-gu, Seoul, Korea

**This is to certify that, in accordance with the Patent Act,
a patent for the invention has been registered at the Korean Intellectual
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2025. 05. 28.



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Korea Standard Certificate (water meter for cold water)

KTC18-0220

[정기심사만료일 : 2026년 03월 19일]



제 품 인 증 서

1. 제조업체명 : (주)대한계전
2. 대표자성명 : 김석태
3. 공장 소재지 : 경기도 김포시 양촌읍 황금로89번길 100 가동1층, 나동2층, 3층 다동1층
4. 인증제품
 - 가. 표준명 : 냉수용 수도미터 — 제1부: 계량 및 기술요건
 - 나. 표준번호 : KSB50049-1
 - 다. 종류·등급·호칭 또는 모델 :
 - 이면기재 끝.

「산업표준화법」 제17조제1항에 따른 인증심사를 한 결과 한국산업표준(KS)과
인증심사기준에 적합하므로, 「산업표준화법」 제15조 및 같은 법 시행규칙 제10조
제1항에 따라 위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2023년 04월 12일

원본대조필



한국기계전기전자시험연구원
Korea Testing Certification



* 변경내역 이면기재

Quality Management System Certificate



품질경영시스템 인증서

(주) 대 한 계 전

경기도 김포시 양촌읍 황금로89번길 100, 가동 1층, 나동 2층/3층, 다동 1층

중소벤처기업인증원은 위 회사의 품질경영시스템이 아래의 인증 표준과
범위의 요구사항에 적합함을 인증함

인증번호 : QMS-3820

인증표준 : KS Q ISO 9001:2015 / ISO 9001:2015

유효기간 : 2023.09.22 ~ 2026.09.21 (최초인증일 : 2017.09.22)

인증범위 : 냉수용 수도미터, 온수미터, 디지털 냉수미터,
디지털 온수미터, 수도용 감압밸브, 유수량계,
앵글밸브, 유니온 파이프 너트, 스트레이너의
설계·개발 및 생산

원본대조필

2024년 10월 22일

인증범위변경에 따른 인증서 재발급



KAB-QC-09

중 소 벤 처 기업 인증 원 장



품질경영체제에 대한 국제인증기관협력기구의 국제다자간상호인정협정 가입 인정기관에 의한 인정마크입니다.
중소벤처기업인증원은 한국인증지원센터(KAB)로부터 품질경영체제 인증기관으로 인정(인정번호:KAB-QC-09) 받았습니다.
중소벤처기업인증원 / 서울특별시 금천구 벚꽃로 254, 702호 / Tel. 02-2113-7500 / Fax. 02-2113-7540 / www.kosre.or.kr

Sanitary Safety Standards Certificate (Water meter)

출력일: 2025년 05월 23일

(앞쪽)

위생안전기준 인증서

1. 인증번호 : KCW-2018-0022
2. 제조업체명 : 주식회사 대한계전
3. 대표자 : 김석태
4. 본사 주소 : (10048) 경기도 김포시 양촌읍 황금로89번길 100, 가동1층, 나동2층,3층, 다동1층
5. 공장 소재지 : (10048) 경기도 김포시 양촌읍 황금로89번길 100, 가동1층, 나동2층,3층, 다동1층
6. 제품명 : 수도미터
7. 용도 : ☐ 표충용재료 ☐ 말단급수설비
☒ 급수설비 ☐ 일반수도용자재

「수도법」 제14조제1항 및 「수도용 자재와 제품의 위생안전기준 인증 등에 관한 규칙」 제8조제1항에 따라 위생안전기준 인증서를 발급합니다.

원본대조필

2018년 01월 18일

한국물기술인증원장

210mm×297mm[보존용지 120g/㎡]

본



Type Approval Certificate (Multi-jet Dry Digital)

■ 계량에 관한 법률 시행규칙 [별지 제 11호서식]

문서관리번호 : ARKP-09IQ-C36Y

형식승인번호 제 KTC-I-20-58-13 호

1 / 5

형식승인서

1. 상 호 : 주식회사 대한계전
2. 성명(대표자) : 김석태 사업자등록번호 : 374-87-00649
3. 사업장 소재지 : 경기도 김포시 양촌읍 황금로89번길 100 ,가동1층,나동2층,3층 다동1층
4. 공장 소재지 : 경기도 김포시 양촌읍 황금로89번길 100 ,가동1층,나동2층,3층 다동1층
5. 계량기의 종류 : 수도미터
6. 규격 및 형식 : [별첨]

7. 형식승인기준명 및 고시번호 : 수도미터 기술기준 산업통상자원부 고시 제2022-167호(2022.10.14)

위 계량기는 「계량에 관한 법률」 제14조제1항 및 같은 법 시행규칙 제15조 제1항에 따라 위와 같이 형식을 승인합니다.

2025년 04월 18일

한국기계전기전자시험연구원



※ 형식승인 변경내역 별지 기재.

원본대조필



Type Approval Certificate (Multi-jet Dry Mechanical)

■ 계량에 관한 법률 시행규칙 [별지 제 11호서식]

문서관리번호 : BGCQ-Q20D-L1D8

형식승인번호 제 KTC-I-20-211-03 호

1 / 4

형식승인서

1. 상 호 : 주식회사 대한계전
2. 성명(대표자) : 김석태 사업자등록번호 : 374-87-00649
3. 사업장 소재지 : 경기도 김포시 양촌읍 황금로89번길 100 ,가동1층,나동2층,3층 다동1층
4. 공장 소재지 : 경기도 김포시 양촌읍 황금로89번길 100
5. 계량기의 종류 : 수도미터
6. 규격 및 형식 : [별첨]

7. 형식승인가준명 및 고시번호 : 산업통상자원부고시 제2018-110호 수도미터 기술기준

위 계량기는「계량에 관한 법률」 제14조제1항 및 같은 법 시행규칙 제15조 제1항에 따라 위와 같이 형식을 승인합니다.

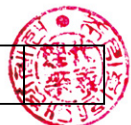
2022년 10월 19일

한국기계전기전자시험연구원



※ 형식승인 변경내역 별지 기재.

원본대조필



Type Approval Certificate (Multi-jet Wet Mechanical)

■ 계량에 관한 법률 시행규칙 [별지 제 11호서식]

문서관리번호 : 4D9X-9OQZ-9TBS

형식승인번호 제 KTC-1-16-32-16 호

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형식승인서

1. 상 호 : 주식회사 대한계전
2. 성명(대표자) : 김석태 사업자등록번호 : 374-87-00649
3. 사업장 소재지 : 경기도 김포시 양촌읍 황금로89번길 100 ,가동1층,나동2층,3층 다동1층
4. 공장 소재지 : 경기도 김포시 양촌읍 황금로89번길 100 ,가동1층,나동2층,3층 다동1층
5. 계량기의 종류 : 수도미터
6. 규격 및 형식 : [별첨]

7. 형식승인기준명 및 고시번호 : 산업통상자원부고시 제2022-167호 수도미터 기술기준

위 계량기는 「계량에 관한 법률」 제14조제1항 및 같은 법 시행규칙 제15조 제1항에 따라 위와 같이 형식을 승인합니다.

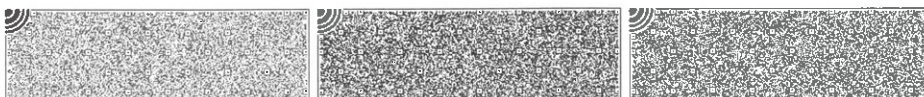
2024년 11월 29일

한국기계전기전자시험연구원



※ 형식승인 변경내역 별지 기재.

원본대조필



Factory facility status



Electronic automatic water meter testbench 1,6
(Metrological Class horizontal R100 to R200) (15 to 50mm)



Electronic automatic water meter testbench 1,6
(Metrological Class horizontal R100 to R200) (15 to 50mm)



Water meter casting production processing facility



Plastic Injection molding facilities



water meter parts mold



Self-produced water meter exhibition hall

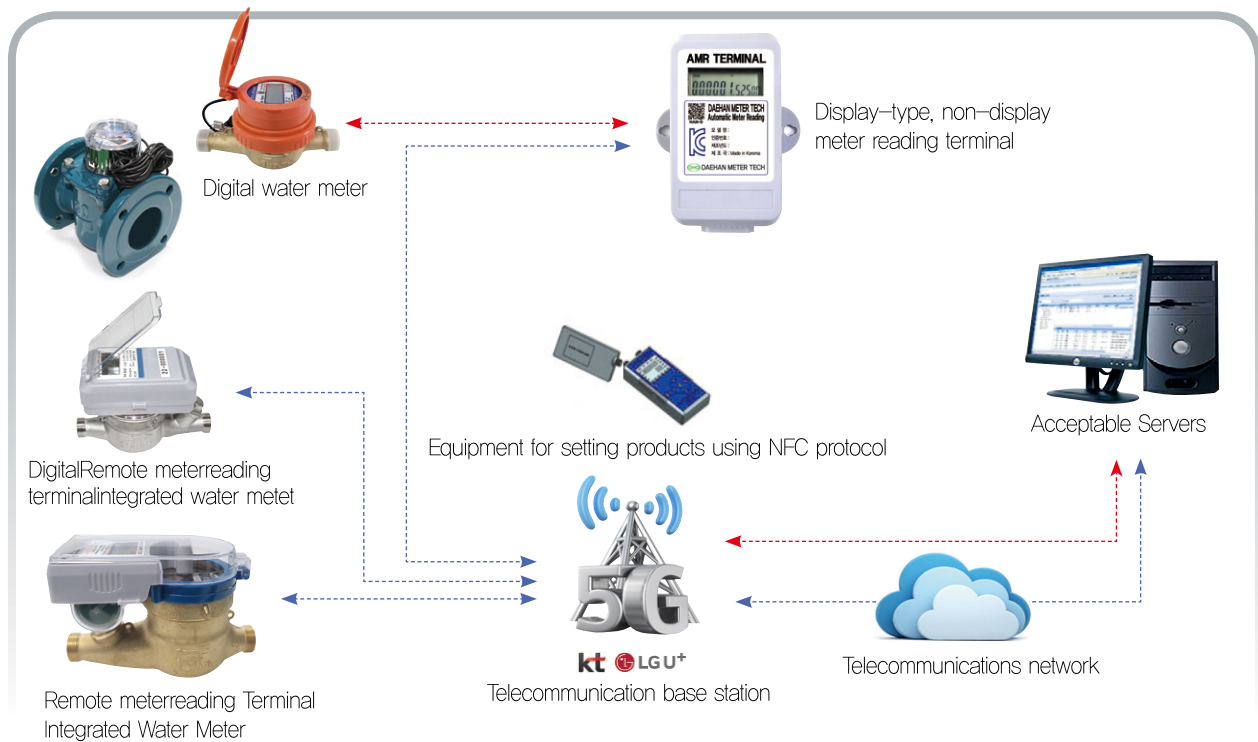


Self-produced water meter exhibition hall



Constant temperature and humidity test chamber
(for freezing prevent product)

Smart Remote meter reading solution (configuration diagram)



New Product New Technology Smart Water Meter Remote meter reading terminal–integrated water meter



Production item

- ▶ a remote water meter
- ▶ Freeze-proof water meters
- ▶ a counter-current water meter
- ▶ Dry sweet pack for hot and cold water
- ▶ Digital water meter terminal integrated
- ▶ Prevention of Backflow for Prevention of Freezing Electronic Water Meter
- ▶ a large water meter
- ▶ Stainless Steel Large Water Meter
- ▶ Hot water meter flow meter and water meter
- ▶ Stray built-in union
- ▶ Union pipes for water, nuts
- ▶ Remote meter reading terminal
- ▶ Direct Operation of the Water Pressure Relief Valve
- ▶ Dial Pressure Regulating Decompression Valve
- ▶ An angle-integrated pressure reducing valve for water supply
- ▶ ANGLE VALVE FOR WATER
- ▶ Directly operated angle valve integrated type for water supply

DHG DAEHAN METER TECH CO.,LTD.

100, Hwanggeum-ro 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do Republic of Korea
TEL : 82-31-988-0658 FAX : 82-31-988-0670 www.dhmeter.co.kr