

## Single / Multi jet meters / Cartridge meters

### Product description

Apartment / residential water meter for cold water up to 50 °C and hot water up to 90 °C (with or without factory-fitted radio module)

### Intended purpose

For measuring the consumption of cold and clean drinking water or service water up to 50° C  
For the consumption measurement of hot and unpolluted drinking water or service water up to 90 °C

### Scope of delivery

1 water meter, 1 instruction manual, Declaration of Conformity  
1 sealing set including gaskets (only for apartment water meters)

### Comment

This installation manual is intended for qualified specialists only. Basic installation steps are therefore not described.

### Permissible installation positions

The installation positions may differ depending on the type or for technical approval reasons. These are marked accordingly on the meter mask/type plate of each water meter in accordance with DIN EN ISO 4064.

### General notes

- Water meters are precision instruments. Protect against shock and vibration. Store frost-free, cool and dry.
- The sealing surfaces are equipped with thread protection caps and thus protected from damage.
- Check before starting installation:
  - that all sealing surfaces are plane and free of damages such as notches, grooves or similar.
  - all indications on the dial are legible (flow rate indications depend on the respective nominal size).
- the measuring instrument is suitable in design, size, temperature range and pressure rating for the installation site.
- In the case of polluted water, we recommend installing dirt filter in the supply line upstream of the meter.
- If possible, install the meter at the lowest point of the installation and frost-proof to avoid air accumulation and damage.
- The water meter must be mounted free of mechanical forces.
- Water meters must be completely filled with water during operation - in the case of wet-dial meters, the register must also be filled!
- The meter must be protected with appropriate measures against pressure shocks in the pipeline.
- If there is a risk of frost, shut off the system and drain it completely (including the meter!), if necessary remove the meter.
- The meter must be easily accessible and readable at all times, including all information on the dial.
- We recommend securing the connection points against unauthorised disassembly with a user safeguard. It should not be possible to remove or loosen the user safeguard without visibly damaging.
- The installation has to be done by qualified professional personnel. We also refer to the regulations of DIN EN ISO 4064:2017 Part 5 and DVGW Worksheets W291 and W557.
- All series have been approved with a flow sensitivity class U0/D0 (no inlet / outlet section required).
- All series are not suitable for measuring reverse flow.

## Installation

1. Read the installation instructions carefully right up to the end before beginning installation.
2. Close the shut-off devices upstream and downstream of the meter.
3. Relieve pressure at the installation site.
4. Remove existing meter or fitting piece.
5. Only use new and flawless sealing material.
6. Check sealing surfaces and connection threads for damage/mistakes.
7. Install the meter in the correct flow direction and in the correct installation position. Make sure that the seals do not slip, fall out or get damaged.
8. Screw on and tighten the union nuts.
9. Open valves slowly. Avoid pressure shocks. Rinse sufficiently.
10. Check the installation site for leaks. The dial and the conformity/metrology markings shall be clearly legible at all times.

## Additional instructions for the installation of polymer (composite material) meters

- To ensure a stress-free installation, we recommend the use of a water meter bracket.
- Recommended tightening torque for polymer connection fittings: Min. 20Nm up to max. 30Nm.

## Disposal

Battery-powered devices, or battery-powered modules additionally installed on mechanical devices, may contain non-removable and non-rechargeable lithium batteries. These are marked with the WEEE directive symbol (crossed-out garbage can).

Batteries contain substances, which could harm the environment and might endanger human health if not disposed of properly.

To reduce the disposal quantity so as unavoidable pollutants from electrical and electronic equipment in waste, old equipment should be reused prior or materials recycled or reused as another form.

This is only possible if old equipment, batteries, other accessories and packaging of the products are returned to the manufacturer or handed in at recycling centres. Our business processes generally provide that we or the specialist companies we use take old devices including batteries, other accessories and packaging material back with us after they have been replaced or at the end of their useful life and dispose of them properly.

Insofar as no other contractual arrangement has been made in this respect, your local or municipal authority or the local waste disposal company can give you information relating the collection points for your used equipments.

ZENNER will always ensure correct disposal

### Attention!

Do not dispose of the devices with domestic waste. In this way, you will help to protect natural resources and to promote the sustainable reuse of material resources.



Should you have any questions, please contact [info@zenner.com](mailto:info@zenner.com)

The latest information on this product and the current version of these instructions can be found at [www.zenner.com](http://www.zenner.com)

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