

Product description

Bulk water meter type Woltman WPD / WPHD for cold water up to 50° C.
Bulk water meter type WPDE/WPHDE (radio water meter) with factory assembled and parameterized EDC radio module for cold water up to 50° C.

Intended use

For the measuring of drinking water up to 50° C.
For the measuring of clean industrial water up to 50° C.

Scope of delivery

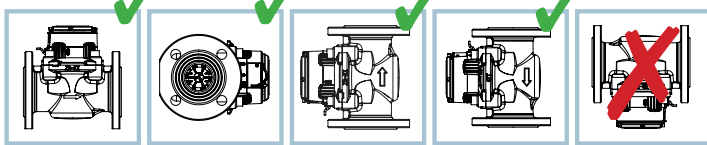
1 water meter, 1 instruction manual.

Remark:

These installation instructions are intended only for trained personnel.
Basic installation steps are therefore not described.
The meter reading must be multiplied by factor x10, for the nominal sizes DN150 to DN300, the nominal sizes DN400 and DN500 by factor x100.

Permissible installation positions

The WP series is intended for installation in the horizontal and vertical positions.



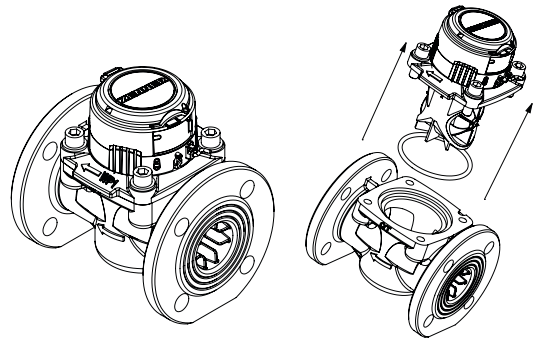
Installation instruction

- The WP series has been approved at a flow sensitivity class U0/D0. However, in order to achieve the best results, we recommend observing the national regulations and accepted codes of practice.
- For WP series is recommended a straight inlet section of at least 3xDN. If there is no sufficient inlet section be present, or behind pipe elbow, we recommend to use a honeycomb rectifier from ZENNER.
- Ideally, there should be a straight outlet section distance of at least 2xDN.
- Before installing the meter, the piping must be thoroughly flushed out.
- The pipe diameter should not be reduced, directly in front and behind the meter.
- Flange gaskets must not protrude into the pipe.
- It should be taken to ensure that the flow direction of the meter coincides with the flow direction of the pipeline.
- Valves or other flow regulation should be mounted as possible behind the meter.
- The meter should not be installed at the highest point of the pipe installation to prevent air bubbles in the meter and the pipeline is always completely filled.
- The meter should be protected against dirt particles like sand or stones by an appropriate filter.
- The meter must be protected against pressure blow in the pipeline network.
- The maximum temperature of the measured medium must not exceed the permissible 50°C for cold water.
- To avoid damage of the measuring insert by pressure surges, the pipeline must be filled slowly after installation.
- It is important to ensure that the meter is installed free of stress in the pipe. In a non-stress-free mounting the meter body may be damaged and water can escape.
- The pipeline pressure must not exceed the maximum working pressure of the meter, as this can lead to leaks and damage of the meter.

- To prevent the disassembly of the meter we recommend to secure the connection interface with a safety device (adhesive label, seal, etc.).

Installation instructions for the replacement of the metrological unit:

- The exchange of exchangeable metrological units (measuring insert) should only be performed by trained specialist staff.
- Before changing the measuring insert, the pipe must be rinsed carefully shut off the pressure side and empty the pipe.
- The compliance of the interfaces marking on the measuring insert and at the specified interface (body) must be checked (interface WP1 for DN50 - 150 and the interface WP5 for DN200 - 300).



- After disassembly of the measuring insert old gaskets / seals must be removed. The sealing surfaces must be cleaned and checked for damage.
- It is important to ensure that the inlet area is free of deposit, before a new metrological unit is installed, because as these can lead to deviations of the measurement result.
- Use only the genuine seals, which are delivered together with the measuring insert. These have to be checked prior to installation for damage and fit.
- When using lubricants or assembly pastes for the seals it must be ensured that they are suitable for contact with drinking water.
- Tighten the screws of the measuring unit evenly crosswise (M12: DN50 – DN125 = 60Nm; M16: DN150 – DN300 = 85Nm).
- To prevent the disassembly of the replacable measuring insert, it must be connected with the connection interface (housing) by a sealing wire.

Declaration of conformity

ZENNER International GmbH & Co. KG declares that the product with the number of EC type-examination certificates DE-15-MI001-PTB010 & DE-15-MI001-PTB011 complies with the essential requirements of the EC directive 2014/32/EU (Measuring instrument directive). ZENNER International GmbH & Co. KG hereby declares that the products for Remote Metering; complies with the application Wireless Communications with the essential requirements of the EC directive 1999/5/CE (R&TTE).

The declaration of conformity and the latest information about this product can be accessed or downloaded from www.zenner.com