

MB 9202

Installation instructions MeiStream (MID)

1. Product description: Bulk meter for water up to 50 °C

2. Applications

MeiStream/MeiStream Plus 50 °C / PN 16 or PN 40	Measurement of cold potable water up to 50 °C Measurement of clean water up to 50 °C
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3. Included in the delivery: 1 Water meter; 2 Gaskets; 1 Manual

4. Technical data: Refer to the technical data leaflets LB 1010; LB 1060 (<http://www.sensusesaap.com>)

5. Installation instructions

5.1 Safety tips

- 5.1.1 No mechanical stresses may be exerted on the meter when installed in the pipeline. The pipeline flanges must align with the meter flanges and the distance between the flanges must match the meter body length. Mis-alignment stresses can cause the meter body or flanges to crack. When the pipeline is under pressure this can cause flooding.
- 5.1.2 The meter must not be subjected to pressures higher than the pressure rating printed on the meter. Too high pressure can cause leaks or burst the meter body.

5.2 Installation Tools

Two spanners for the corresponding size of bolts used are necessary. Hoisting devices may be required, depending on the weight of the meter and the installation conditions.

5.3 Installation instructions

- 5.3.1 The MeiStream does not need any straight upstream or downstream pipe.
- 5.3.2 The pipe diameter should not be abruptly reduced or expanded directly upstream or downstream the meter. All diameter changes should be done with an angle <8° related to the pipe centre.
- 5.3.3 All flow regulating devices (eg. Valves, PRV's) shall be installed downstream of the meter
- 5.3.4 When choosing an installation site, consider the meter orientation (horizontal/vertical)!
- 5.3.5 Gaskets must not protrude into the pipeline or be mis-aligned.
- 5.3.6 The pipeline must be thoroughly flushed before installing the meter to prevent damage from debris.
- 5.3.7 The flow direction of the meter (arrow on the meter body) must correspond with the flow direction in the pipeline.
- 5.3.8 After installation of the meter, the pipeline must be filled with water very slowly to prevent the meter being damaged by surges. Filling the pipe too rapidly can cause air / water surges which can destroy the meter insert.
- 5.3.9 The installation site should be chosen to prevent air bubbles collecting in the meter and the pipeline must always be completely filled with water. Installation of a meter at the highest point in a pipeline must be avoided.
- 5.3.10 The manufacturer's Q3 value must not be exceeded for extended periods.
- 5.3.11 The maximum medium temperature of 50 °C shall not be exceeded.
- 5.3.12 The meter should be protected from stones, sand and fibrous material with a suitable strainer or filter.
- 5.3.13 The meter must be protected from pressure surges.
- 5.3.14 Exchanging the measuring insert (when used for billing national regulations must be followed)

- Before the installation of a replacement measuring insert the the inside surface of the body, especially the sealing areas of the O-ring must be checked for damage. A new O-ring must be used .
- The O-ring and the lip seal must be lubricated with grease approved for use with potable water before installation into the meter body.
- To avoid damaging the O-ring when installing a meter insert, the O-ring must first be fitted onto the cover flange and then pushed into the meter body. If the O-ring is fitted into the body first, it can be pinched when fitting the meter insert and cause leaks.
- When installing the measuring insert into the meter body make sure that the direction of the arrow on the head flange aligns with the arrow on the meter body.
- The screws fixing the measuring insert in the body shall be screwed hand tight and then tightened crosswise with an Allen key. The recommended torque is 40 Nm (M12) or 160 Nm (M16) Using the composite head flange the torque shall not exceed 20 Nm.
- At least one screw shall be sealed after exchanging the measuring insert. to avoid tampering with meters used for billing.

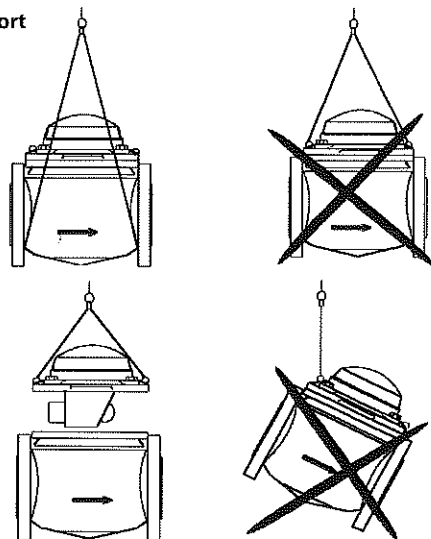
6. Reading

The black digits on the roller counter indicate whole cubic metres. Parts of a cubic metre are indicated by the red sweep hands. Meters of size DN150 require the roller counter reading to be multiplied by 10 for a reading to the nearest 10 cubic meters (x10 printed below the roller counter). For a reading to the nearest cubic metre, the black sweep hand must be read. Please see example: The complete volume is 13,572 m³.

7. Maintenance and cleaning

Under normal conditions the meter is maintenance free. If required the measuring insert can be removed and cleaned (when used for billing national regulations must be followed). Chemicals, sharp objects or high-pressure cleaners must not be used for cleaning.

8. Transport

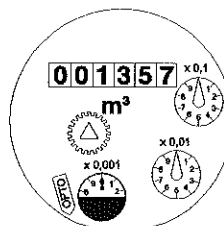


9. Orientation / Einbaulagen

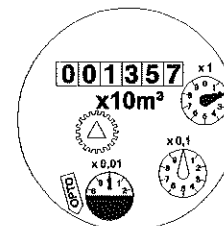
Type / Bauart	
 MeiStream	 MeiStream Plus
Register *) / Zählerkopf *)	
 Upwards or 90° slanted Nach oben oder zur Seite	 Upwards Nach oben
Pipe *) / Rohrleitung *)	
 horizontal vertical inclined horizontal vertikal schräg	 horizontal horizontal

*) when used for billing the marking on the type plate must be followed

*) Im gesetzlich geregelten Verkehr ist auf die Angabe auf dem Typenschild zu achten!



DN 40 ... 125



DN 150