

Dear WFWG member,

following this you can find useful applications in order to represent different possibilities for to do measurement in sewage network at your premises or as part of your projects.

Flow Measurement In Small Sewage Works

Application

- Pipe line width 0.2 m
- Part filled
- Pipe line made of HDPE
- Low flow levels of 4-5 cm
- Cramped conditions at measurement point



Measurement point

Definition of Task

- The flow volume at the intake of a small sewage works shall be measured continuously.
- A relay impulse is to be sent from transmitter to PLC after each cubic meter of wastewater.
- The measurement used shall be cost-effective.
- Quick and easy installation required.

Solution

- Flow measurement according to the classic Doppler method (OCM FR) using a pipe sensor has been used.
- The measurement has been installed within a manhole.
- An external ultrasonic level sensor (NivuCompact) has been used to measure even lowest filling levels.

Advantages:

- Low purchase costs.
- Easy and quick installation of measuring section thanks to the use of pipe couplings.
- No flanges required.



Top view on measurement point in manhole