

Contactless flow measurement for the Water Supply & Wastewater Services Industry. Katronic's ultrasonic flowmeters can be installed on existing and new pipes alike without the need to open them.

Specifications

- **Installation:** Portable & fixed installed
- **Medium:** Water, Waste & Raw Water
- **Pipe Materials:** All common metals, plastics and more
- **Pipe Diameters:** 10 to 3,000 mm
- **Flow Velocities:** 0.01 to 25 m/s
- **Accuracy:** Up to $\pm 0.5\%$ for volume flow and flow velocity

Application



Clamp-on sensors were installed on this existing feeder pipe of a water treatment plant supplying Panama City with water.

Instrument Solution



Fixed installed ultrasonic clamp-on flowmeter KATflow 150 as example of a suitable instrument.

Measurement Task

All water companies distribute drinking water through their pipeline distribution network. At strategic locations throughout the mains supply network, flow measurements have to be made to give a general overview of supply and demand and in some cases information about water losses through leakage along the pipelines.

Often relatively large pipes of varying pipe materials constitute the backbone of drinking water supply networks. Most of these pipes have been in operation for some considerable time. In some cases flow meters had been installed at the time of the network construction, in others, flow metering had not been considered at all.

Solution

A solution for continued flow measurements can be found in form of the fixed installed ultrasonic clamp-on flowmeter KATflow 150. As all of Katronic's instruments apply the clamp-on mounting technique, the sensors can be installed to the pipes without the need to open them. Thus water flows do not have to be interrupted for installation or any time after. The various optional process in- and outputs of the KATflow 150 enable the instrument to be connected to control systems.

Katronic's portable alternatives are the hand-held KATflow 200 and portable KATflow 230. Both instruments are ideal tools to detect leakages, carry out flow surveys or test the performance of pumps and the accuracy of in-line flowmeters.

Katronic has been supplying leading companies of the Water Supply and Wastewater Services and Treatment Industry for many years such as Severn Trent Water, Biwater Treatment, Thames Water, Northumbrian Water and Anglian Water.

Advantages

- **Easy, quick and cost-effective installation on existing pipelines**
- **Applicable on pipes of various materials (incl. duplex stainless steel) and diameters from 10 mm to 3,000 mm**
- **Fixed installed meters suitable for isolated locations without mains power supply due to low power consumption**
- **Maintenance free, very low MTBR (mean time between repairs)**
- **Easy integration into existing or future control systems**

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