



**SIEMENS**

# SITRANS F US Clamp-on Ultrasonic Flowmeters for the Water Industry

[siemens.com/flow](http://siemens.com/flow)

Dual modes of operation make SITRANS F US clamp-on ultrasonic flowmeters from Siemens suitable for virtually any flow application within the water industry.

Siemens clamp-on flowmeters can be used with a wide variety of water industry applications, including leak detection for distribution systems, irrigation and low flow chemical dosing. Clamp-on flowmeters have dual mode capabilities that are suitable for measurement of both homogeneous liquids as well as liquids with aeration, a feature that usually requires two separate meters.

This makes them ideal for the diverse types of fluid measurement tasks required by applications and installations in

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- Water extraction
- Low flow chemical dosing
- Backwash flow monitoring
- Flocculation tank flow metering
- Distribution network monitoring
- Leak detection
- Conservation studies
- Water billing
- Water consumption monitoring
- Irrigation

The flowmeters are available in both permanent and portable models and as all-inclusive Check Metering Kits. Installation is quick and easy, since it is not necessary to cut the pipe or stop the flow. In addition, the sensors are installed on the outside of the pipe, minimizing maintenance expenses and preventing deposits from forming.

**Answers for industry.**



Specific versions of the clamp-on ultrasonic flowmeters from Siemens offer unique dual mode capabilities, using WideBeam transit time and Doppler ultrasonic technology engineered for a diverse range of flow applications.

WideBeam transit time operation is the preferred mode for relatively homogeneous liquids found in filtration and disinfection applications. Accuracy is up to 0.5 % of the flow. Doppler operation, on the other hand, is the preferred measurement method for liquids with extensive aeration such as oxidized water. Doppler accuracy is up to 1.0% of the flow. Having both modes of operation ensures suitability for virtually any water application. The system can automatically switch from one mode of operation to the other as conditions change, eliminating the need to alternate between meters when aeration and solids vary.

SITRANS FUS1010 provides accurate, non-intrusive flow measurement in full pipes and is dual mode field programmable. It is particularly suitable for high-precision low-flow dosage of the chemicals such as fluoride found in numerous fresh water treatment applications. The SITRANS FUS1010 is available in single, dual or optional four channels, allowing measurement of four independent pipes. It offers a wide range of communication options, including BACnet MSTP/BACnet IP, Modbus RTU/TCPIP, Ethernet IP, Johnson N2 and VT100 RS232.



The SITRANS FUP1010 is very similar to the SITRANS FUS1010 but is available in a rugged submersible portable enclosure. The SITRANS FUP1010 system is frequently used as part of inflow studies, or as portable or permanently installed meters and is offered in both single as well as dual channel versions. It comes standard with VT100 RS232 communication.

The SITRANS FUP1010 is also available as an all-inclusive Water Check Metering Kit. It is capable of measuring practically all conductive or non-conductive, clean or moderately aerated liquids as well as liquids with suspended solids. The meter's portability makes it the perfect choice for performance check or verification of any type or brand of flowmeter installed anywhere in a wastewater plant. Accuracy is 0.5 to 2.0 % and repeatability on the better side of 0.15 %.

The SITRANS FST020 is an affordable flowmeter featuring specifications compatible with basic application requirements: one channel, limited configuration options that make product selection straightforward, three communication protocols (BACnet MSTP, Modbus RTU and VT100 RS232) and lastly, a simple and user-friendly design that not only ensures easy set-up and configuration but also delivery times up to par with market expectations.

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