



Non-contact
measurement

Easy
Reliable
Maintenance-free

U1000 Ultrasonic
Flow Meter

Features

Easy, uncomplicated and absolutely reliable. Non-contact measurement of pure and ultrapure water with ultrasound technology.

Developed ideally for the plastic piping systems from Georg Fischer Piping Systems. Thanks to the clamp-on installation, the flow sensor is installed in just minutes. The sensor can be easily adapted to the pipe dimension. The continuous measurement is based on the time-of-flight principle.

The two integrated sensors send and receive ultrasonic signals, measuring the speed of propagation of the ultrasonic waves. The sensor then calculates the volume internally. Compact, powerful, reliable!

One sensor for pipe dimensions d25-d115

- + Lower inventory and logistics costs
- + Fast system expansion

Large display

- + Clear and fast reading of parameters, several values at a glance
- + Easy programming in a few steps



Compact design

- + Also fits easily on small, compact systems

Clamp-on design

- + Very fast assembly in only five minutes
- + Saves a lot of time on sensor installation
- + Convenient installation on outside of pipe

No contact with medium

- + Non-contact measurement:
The sensor does not come into contact with the medium
- + Long product lifetime, low maintenance costs

Silicon wafer/chip production:
Production process with ultrapure water, controlled and monitored by technology from Georg Fischer Piping Systems.



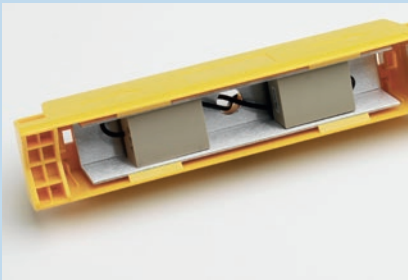
Technical data

Specifications	Values
Measurement principle	Ultrasound, time of flight
Flow velocity range	0.1 - 10 m/s
Accuracy	3% of measured value
Reaction time	<500 ms
Pipe diameter [d]	25 - 115 mm
Pipe material	PVC, ABS, PVDF, PP, PE, PB-Instaflex
Working temperature	0-50 °C
Mains voltage	12-24 V DC
Output	4-20 mA, pulse

Cooling systems operated with pure water



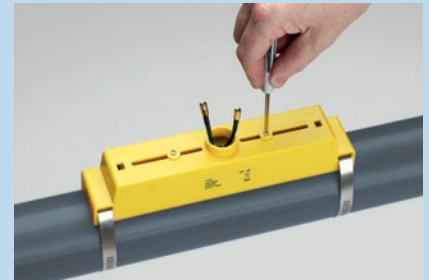
Installation in only five minutes



- + Loosen the safety screws
- + Position the sensor elements



- + Apply the contact gel



- + Tighten the safety screws
- + Attach the sensor unit with the clamps



- + Remove safety screws
- + Electrically connect the electronic unit



- + The two halves are joined by simply snapping them together; no tools required



- + Enter the pipe dimension and the material – confirm and done
- + The sensor is ready for operation

Code	Type	Description
159 300 085	U1000-1	U1000, for plastic pipes d25-115 mm

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