



Simple
and accurate

The new
permanent
clamp-on
flow meters

Ultraflo U3000/U4000

Easy set-up and installation – perfectly tailored and pre-set for Georg Fischer Piping Systems.

The Ultraflo brings simplicity to the non-invasive measurement of liquid flow, offering the user quick and accurate flow measurement with its easy to follow menu and simple set up. A cost-effective alternative to traditional in-line meter installation, plus dry servicing, providing minimum downtime and maximum availability. Compact, rugged and reliable, the Ultraflow has been designed to provide sustained performance in industrial environments.



Industries

- Water
- Building Services
- Energy
- Chemical Industry
- Food & Beverage
- Semiconductors

Recommended for

- Potable water
- River water
- Cooling water
- Demineralised water
- Water/glycol solutions
- Chemicals

Application / Use

- Ultrapure water measurement
- Condensate measurement
- Balancing systems
- Chilled water metering
- Potable water metering

Hardware & Operation

The Ultraflo electronics are housed in a specifically designed IP65 enclosure, which incorporates the graphic display, keypad, sensor and output facility connections. Programming the unit is carried out by selecting the options displayed in the main menu and by following the simple instructions in any of the user selectable languages. Signal strength, time and date, as well as flow information are all continuously displayed, keeping the user fully aware of the measurement process.

Flow Transducers

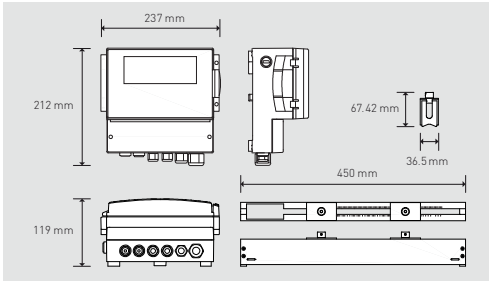
The Ultraflo is able to work with different transducer sets depending on the unit purchased and the application. Sensors are mounted in a guide rail provided with each instrument, to ensure correct mounting and reliable operation on any size pipe, in either diagonal or reflex mode.

Data Logger (U4000 only)

The built in data logger in the U4000 allows site details and flow data to be recorded with a memory, that is able to log 198,000 separate readings. Data can be stored in 5 second to 1 hour intervals. The data for each site is stored in the memory until it has been cleared. The stored data can be displayed on the instrument in text or graph format. The instrument is also capable of down-loading the stored data via the USB or RS232 output port.

System data

Transit time ultrasonic flow meter: a non-invasive way of measuring.



U3000/U4000 Product Features

- Flow range: 0.1m/sec to 20m/sec bi-directional
- Display: 64 x 240 pixels graphic display
- Programming is password protected
- Power: 86V to 264V AC
Optional 24V a.c./d.c. 1A max.
- Languages EN, DE, FR, RU, SWE, IT, SP, P, NO, DEN
- Accuracy: +/- 0.5% to +/- 3% dep. on pipe size for flow rate > 0.2m/s



U3000/U4000



Guide rail

U3000/U4000 Specification

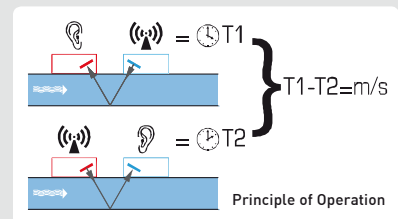
- The enclosure is IP65 rated
- A transducers: d13 – d115 pipes
- B transducers: d50 – d2000 pipes
- Optional transducers for pipes d1500 up to d5000 contact Georg Fischer Piping Systems
- Transducer operating temp: A & B -20°C to +135°C
- Outputs:
 - Opto Isolated 0/4 –20mA
 - RS 232/USB (U4000 ONLY)
 - Pulse output (programmable pulse width from 2ms - 500ms)
 - Two programmable alarms (high/low flow volume or error)

Selectable pipe materials:

PVDF-SYGEF, PP-PROGEF, PE-ELGEF, PB-INSTAFLEX, ABS, PVC-U/PVC-C, Copper, Mild Steel, Ductile Iron, S'less Steel 316, ...

Working principle

It takes just a few minutes to install and there is no need to shut down flow or drain the system.



When ultrasound is transmitted between the transducers, the speed at which the sound travels through the liquid is accelerated slightly by the velocity of the liquid through the pipe. When ultrasound is transmitted in the opposite direction, the flow of the liquid causes the transmitted sound to decelerate. The subsequent time difference is directly proportional to the flow velocity in the pipe. Having measured the flow velocity and knowing the pipe cross-sectional area, the volumetric flow can be easily calculated.

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