



Precise flow measurement for the water industry

Ultrasonic flow meter with flange connection

- Measurement of conductive and non-conductive water-based media
- Flange connection welded directly onto the measuring tube for easy and secure installation
- Low pressure loss measurement for energy-efficient operation
- Seamless integration into existing water systems



IP65

IP67



ifm – close to you!

| Nominal width | Process connection | Measuring range | | Order no. |
|---------------|--------------------|-----------------|---------------|---------------|
| | | [l/min] | [gpm] | |
| DN65 (2 ½") | flange EN 1092-1 | 20...2400 | – | SUW500 |
| DN80 (3") | flange EN 1092-1 | 25...3600 | – | SUW600 |
| DN100 (4") | flange EN 1092-1 | 45...6000 | – | SUW700 |
| DN80 (3") | flange ASME B16.5 | 25...3600 | 6.6...951.0 | SUW611 |
| DN100 (4") | flange ASME B16.5 | 45...6000 | 11.8...1585.0 | SUW711 |

Reliable flow measurement with easy integration

The ultrasonic sensor measures flows of conductive and non-conductive water-based media with high precision. Process values are clearly shown on the integrated display and can be used for transparent monitoring of water distribution, energy monitoring and consumption optimisation. The flange welded directly onto the measuring tube also enables quick, safe and uncomplicated installation.

Versatile use

The sensor is suitable for a wide range of applications such as cooling circuits, boiler storage tanks, process water systems, drinking water treatment systems and reverse osmosis systems. Retrofitting existing systems is also possible without much effort thanks to industry-standard flanges.

Robust measuring pipe without structures

The stainless steel measuring tube is free of measuring elements, seals or moving parts. This reliably prevents wear, leaks and blockages. At the same time, the flow rate remains unaffected, ensuring long-term low-pressure loss and energy-efficient operation.

| Technical data | | |
|-------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------|
| Pressure rating flange EN 1092-1 | [bar] | PN16 |
| Pressure rating flange ASME B16.5 | [psi] | class 150 |
| Output functions | | IO-Link, analogue output 4...20 mA, pulse output, switching output, diagnostic output |
| Flow Accuracy (in the measuring range) Repeatability Minimum conductivity | [µS] | ± (2.0 % MW + 0.5 % MEW) ± 0.2 % MEW from 0 |
| Temperature Measuring range Accuracy | [°C] [K] | -20...100 ± 2.5 |
| Protection rating | | IP65, IP67 |

MW = Measuring range value

MEW = Measuring range end value

BEST FRIENDS

We reserve the right to make technical alterations without prior notice. · 04.2026
ifm electronic gmbh · Friedrichstr. 1 · 45128 Essen



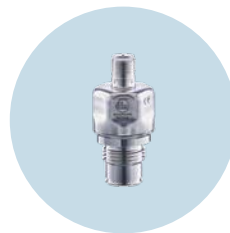
IO-Link master

Field-compatible Performance-Line, up to 2 A per port



Position sensors

Monitoring and diagnosis of quarter-turn actuators



Pressure transmitter PL15

Compact design for mobile and industrial applications



For further technical details, please visit:
ifm.com/fs/SUW500