



Hygienic and accurate flow measurement

Ultrasonic flow meter for the food and beverage industry

- Flow measurement of conductive and non-conductive media, e.g. ultrapure water and edible oils
- Hygienic inline design with dead space-free measuring tube and standardised process connections
- Status LED for displaying the sensor status and quickly assessing the process quality
- Robust housing design for increased shock and vibration resistance



ifm – close to you!

| Nominal width | Measuring range | | Order no. Clamp series A (DIN) | Order no. Clamp series C (ASME BPE) | Order no. Clamp series C (ASME BPE) | Order no. Clamp series C (ASME BPE) |
|---|-----------------|---------------|--------------------------------------|---|---|---|
| | | | Without display | | With display | |
| | [l/min] | [gpm] | [l/min] + [gpm] | [l/min] + [gpm] | [l/min] + [gpm] | [l/min] |
| Clamp process connection [DIN 32676] | | | | | | |
| DN15 (½") | 1...65 | 0.26...17.17 | SUH120 | SUH101 | - | - |
| DN20 (¾") | 1...75 | 0.26...19.81 | SUH820 | SUH801 | - | - |
| DN25 (1") | 1...240 | 0.26...63.4 | SUH220 | SUH251 | SUH201 | SUH200 |
| DN40 (1½") | 3...375 | 0.8...99.06 | SUH320 | SUH301 | - | - |
| DN50 (2") | 5...1,000 | 1.32...264.18 | SUH420 | SUH451 | SUH401 | SUH400 |
| DN65 (2½") | 20...2400 | 5.2...634.0 | SUH520 | SUH501 | - | - |
| DN80 (3") | 25...3600 | 6.6...951.0 | SUH620 | SUH601 | - | - |
| DN100 (4") | 45...6000 | 11.8...1585.0 | SUH720 | SUH701 | - | - |
| Process connection: ifm-specific device flange | | | | | | |
| DN25 (1") | 1...240 | - | - | - | - | SUH230 |
| DN50 (2") | 5...1,000 | - | - | - | - | SUH430 |

Ensuring process quality easily and permanently

The SU Puresonic Hygienic ultrasonic sensor detects flows of conductive and non-conductive media with high precision, for example ultrapure water, water or food oils.

Robust measuring pipe without structures

The stainless steel measuring tube is free of measuring elements, seals and moving parts. This means that faults due to damage, leaks or blockages are excluded from the outset, as are design-related pressure drops.

Hygienic adaptation

The clamp process connection enables quick, tool-free installation and replacement of the sensor. The dead space-free design facilitates cleaning and sterilisation (CIP/SIP) and increases process efficiency. The ifm device flange, on the other hand, allows the use of different seals and adapters for flexible integration into existing systems.

| Technical data | | |
|---|-------------|---|
| Pressure rating | [bar] | 25 |
| Output functions | | IO-Link, analogue output 4...20 mA, pulse output, switching output, diagnostic output |
| Flow Accuracy water (in the measuring range) SUH1...SUH4, SUH8 SUH5...SUH7 Repeatability Minimum conductivity | [µS] | ± (1.0 % MW + 0.5 % MEW) ± (2.0 % MW + 0.5 % MEW) ± 0.2 % MEW from 0 |
| Temperature Measuring range devices with / without display Accuracy | [°C] [K] | -20...100 / -40...120 ± 2,5 |
| Protection rating | | IP67/IP69 |

MW = value of the measuring range

MEW = final value of the measuring range

BEST FRIENDS



PI pressure sensor
Specifically for the food and beverage industry



Conductivity sensor
Measures the conductivity of a medium, such as ultrapure water



IO-Link master
Field-compatible masters with PROFINET interface



For further technical details, please visit:
ifm.com/fs/SUH120