



# SONOFLOW IL.52 V2.0

## NON-INVASIVE FLOW MEASUREMENT

- ✓ Highly accurate
- ✓ For low flow rates
- ✓ Wear-free

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# SONOFLOW IL.52 V2.0

for measurement of low flow rates



The highly accurate ultrasonic flow inline sensor SONOFLOW IL.52 V2.0 detects smallest flow rates in liquid filled pipes quickly and reliably. Due to its semi-invasive construction and its resistance to high temperature the sensor is particularly suitable for applications with strict hygienic standards, e. g. where steam sterilization processes are applied.

The SONOFLOW IL.52 V2.0 is constructed as a built-in component for machines and apparatus. The mechanical installation and electrical interface to a control system can be carried out easily. The sensor offers different output options, such as current, frequency or pulse output which can be selected according to the customer needs. Furthermore, a switching output has been implemented in order to support highly accurate dosing processes. The interface allows easy sensor parameterization, calibration and readout of measuring values.

## Benefits

- ✓ Quick measurement without any time lag
- ✓ Measurement of intermittent flows
- ✓ Widely independent of colour and electro-magnetic characteristics of the liquid
- ✓ No wear and tear
- ✓ Sterilisable

## Applications

- ✓ Pharmaceutical industry
- ✓ Biotechnology
- ✓ Chemical industry
- ✓ Food industry
- ✓ Medical technology
- ✓ Dosing & filling systems

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## Technical Data SONOFLOW IL.52 V2.0

Measuring method	Ultrasound
Upper range value	3 000 ml/min
Accuracy for water at 23 °C ± 2 K and 1 bar	0 to 30 ml/min: ± 0.3 ml/min 30 to 3 000 ml/min: ± 1.0 %
Measuring cycle	Typical 20 ms
Material (in contact with fluid)	Measuring channel and measuring cell: PEEK, seals: Viton or FFKM
Adapter for tube connection	Outer diameter: 8 mm Inner diameter: 4 mm
Temperature measurement	Integrated sensor at the inlet (accuracy ± 1 °C)
Electrical connection	8-pin M12 connector
Output	Configurable as current, pulse output, frequency or switching output
Operating voltage	12 to 30 VDC
Power requirement	100 mA max.
Media temperature	0 to +100 °C (temporarily +145 °C)
Ambient temperature	0 to +70 °C
Storage temperature	-20 to +70 °C
Protection type	IP65
Dimensions (LxWxH)	148 x 59 x 46 mm
Accessories	SONOFLOW Monitor Software for parameterization, monitoring and data logging

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Certified to DIN EN ISO 9001 and EN ISO 13485

SONOTEC preserves the right to change technical specifications without further notice. (Rev. 2 / 2017-10-11)