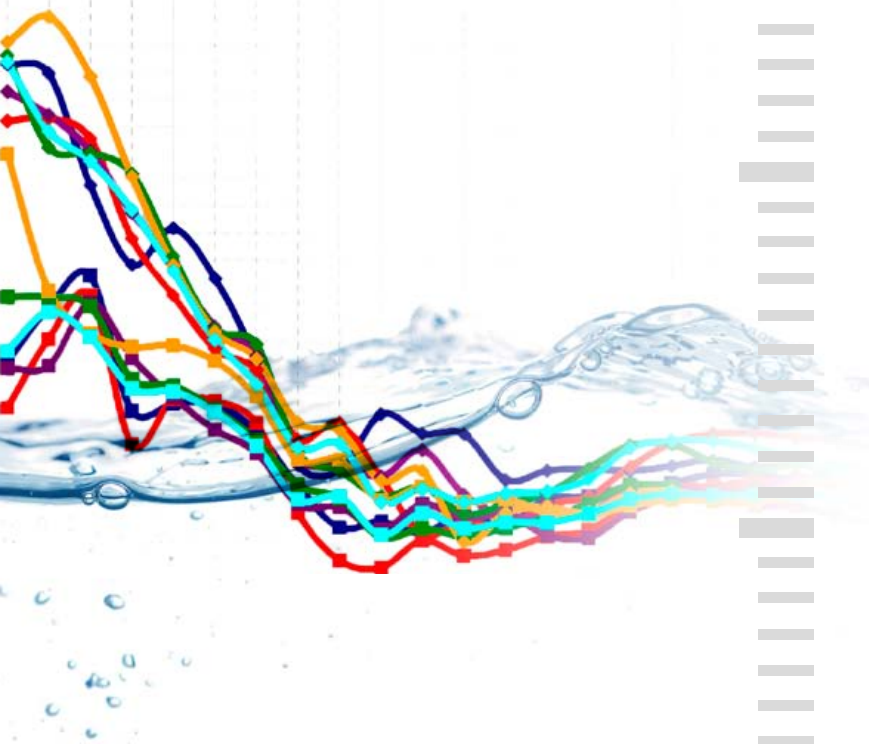


FLOW MEASUREMENT

using ultrasound



SONOFLOW IL.52

SONOTECH 

*Quick
Compact
For low flow rates
Wear-free*

SONOFLOW IL.52

Inline Compact Sensor for the Measurement of Low Flow Rates



The precise ultrasonic flow sensor SONOFLOW IL.52 detects smallest flow rates of liquids quickly, using bidirectional measurement.

Due to its construction and its resistance to temperature the sensor is particularly suitable for applications in fields with strict hygienic standards. An additional benefit is, that the sensor is wear- and maintenance-free.

The SONOFLOW IL.52 is constructed as a built-in component for machines and apparatus. The mechanical installation and electrical integration into the control system can be carried out easily. The sensor has two current outputs or pulse outputs respectively. The service interface allows an easy parameterization, calibration and readout of measuring values.

Advantages

- Quick measurement without any time lag
- Measurement of intermittent flows
- Widely independent of colour and electromagnetic characteristics of the liquid
- No wear and tear
- User defined position of the sensor
- Sterilisable

Applications

- Pharmaceutical industry
- Chemical industry
- Food industry
- Medical technology
- Dosing systems
- Analysing technology

Technical Data SONOFLOW IL.52

Specification	IL.52/3	IL.52/4
Measuring principle	Ultrasound	
Upper range value	3.0 l/min	6.0 l/min
Accuracy for water at 23 °C ± 2 K and 1 bar	0 ... 0.03 l/min: ± 0.3 ml/min	0 ... 0.06 l/min: ± 0.6 ml/min
	0.03 ... 3.0 l/min: ± 1.0 %	0.06 ... 6.0 l/min: ± 1.0 %
Measuring cycle	Typical 20 ms	
Material	PEEK, Viton (seals)	
Adaptor for tube connection	Outer diameter: 8 mm Inner diameter: 4 mm	
Nominal pressure class	PN 16 max.	
Temperature measurement	Integrated sensor (± 1 °C)	
Electrical connection	M12 connector, Service: 9-pin D-Sub	
Output	2 Outputs, configurable as: <ul style="list-style-type: none">4 to 20 mA for flow rate;4 to 20 mA for temperature;Pulse output - flow rate;Switching output as flow monitor	
Operating voltage	12 to 30 VDC, ripple 10 % max., Protection against reverse-polarity	
Power requirement	100 mA max. (outputs open)	
Media temperature	0 to 140 °C	
Ambient temperature	0 to 70 °C	
Storage temperature	-20 to +70 °C	
Protection type	IP65	
Dimensions (L x W x H)	122 x 64 x 46 mm	
Accessories	SONOFLOW Monitor for parameterization and diagnosis	
Directives/Standards/CE	EMV: EN 61326-1:2006	

SONOTEC preserves the right to change technical specifications without further notice. (Rev. 7 / 2014-12-09)

SONOTEC

Certified to DIN EN ISO 9001 and EN ISO 13485

SONOTEC

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