SONOFLOW CO.55 | SEMIFLOW CO.65 | CLAMP-ON SENSOR

for contactless flow metering on flexible tubes

PRODUCT BENEFITS

Highly Accurate
Non-Invasive Measurement
No Interference with the Liquid
Quick Measurement of Pulsating and Bi-Directional Flow
Great Features for Volume Dosing
Built-In Electronics, No External Electronic Board Required

Get a Quote
SONOFLOW CO.55 CLAMP-ON SENSOR - NON-INVASIVE FLOW SENSOR FOR LIQUIDS

The ultrasonic flow sensor SONOFLOW CO detects the flow rate of liquids in plastic tubes quickly and reliably. The non-invasive sensor has no contact to the medium and is particularly suited for applications with strict hygienic standards. The clamp-on mounting concept eliminates any risk of contamination or leaking.

Besides multiple off-the-shelf standard sizes, different housing materials, such as aluminum, stainless steel or plastics, are also available.

The contactless flow sensor SONOFLOW CO combines precise measuring performance and high quality with a unique compact and cost efficient sensor concept.

THE SONOFLOW PRINCIPLE - SMART SENSORING THE WAY YOU REALLY NEED IT!

SUITABLE FOR MOST TYPES AND SIZES OF PLASTIC TUBING AVAILABLE ON THE MARKET

- Multiple off-the-shelf standard sizes for various tubing dimensions
- Sensor solutions for tubing materials, such as PVC, silicone, PFA, PTFE, etc.

SIGNAL PROCESSING

- Complete electronic signal processing unit integrated into the sensor body
- No external electronics board or display required
- Configurable current, frequency or pulse output

SYSTEM INTEGRATION

- Easy to integrate into existing systems via RS485 interface
- Advanced software tool for parameterization and calibration
- Convenient readout of measuring values
- Optional SONOFLOW | C³ Software to provide user-friendly sensor operation and adjustment features

CONFIGURATION

- Parameter settings can be adapted regarding individual tube sizes and materials, fluids, flow ranges and temperature

CUSTOMIZATION

- In addition to our standard products, SONOTEC also manufactures customer-specific solutions
SEMIFLOW CO.65 - SENSORS IN THE SEMIFLOW SERIES ARE SPECIFICALLY DESIGNED FOR APPLICATIONS IN THE SEMICONDUCTOR INDUSTRY AND ARE CHARACTERIZED BY A NUMBER OF ESSENTIAL FEATURES

- Highly precise and contact-free measurement
- 8 sensor sizes (¼", 3/8", ½", (¾"), 1", 1 ¼", 40A, 50A OD) for a wide range of tube sizes
- Version for the application in hazardous environments (Ex Zone 1)
- Plastic housing (PVCC) and plastic connector (PA)
- Screwed lid and flexible inlay for an optimal coupling between tube and transducer
- No external electronics for a compact design and simple handling
- Customer calibration for different flow rates

**Technical Data**

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<th>Measurement Principle</th>
<th>Ultrasound</th>
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<tr>
<td>Measurement Method</td>
<td>Flow Measurement with Transit Time Principle</td>
</tr>
<tr>
<td>CHANNEL WIDTH</td>
<td>3.5 mm to 34 mm</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------------------</td>
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<tr>
<td>OUTER DIAMETER - TUBE</td>
<td>4 mm to 35 mm</td>
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<tr>
<td>MATERIAL - TUBE</td>
<td>PVC, Silikon, PTFE, PFA, FEP, TPE, Tygon, PE, etc.</td>
</tr>
<tr>
<td>MATERIAL SENSOR</td>
<td>Aluminum, Stainless Steel, Plastics</td>
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<tr>
<td>OPTIONS</td>
<td>Display, Inlay, Handle</td>
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### 360° Product View

![Product View](image)

### Downloads

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<th>Type</th>
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<tr>
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<td>218 KB</td>
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INFOGUIDE | BASIC KNOWLEDGE ULTRASOUND

Transit Time Method
...engineering and physical principles of non-invasive SONOFLOW sensors

APPLICATIONS

Heart-Lung Machines
Organ Transport Systems
Dialysis Machines
Chemical Spray Systems
Slurry Lines
Dosing Systems
Bioprocessing
Pump Protection
Vaccine Manufacturing
Lab Use

FOLLOW US

Non-invasive Flow Measurement & Bubble Detection
DO YOU HAVE ANY QUESTIONS?

Then contact us! We're here to help.

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