SONOFLOW CO.55 | CLAMP-ON SENSOR

for contactless flow metering in 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.55 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.

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
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

Customer Reviews

JEFF POLAND, PRESIDENT AND CEO AT CENTURY HLM, ON OUR AIR BUBBLE SENSORS:

“We started with SONOTEC’s ABD05 series sensor. After our research and interview process SONOTEC had the only sensor capable of meeting 60601 3rd edition specifications for a fail-safe free hanging non-intrusive arterial line air detector sensor.” [Read more]

JOCHEN HÜBNER, R&D AND QUALITY MANAGEMENT REPRESENTATIVE AT HERRMANN APPARATEBAU GMBH, ON OUR AIR BUBBLE SENSORS:

“When searching for a suitable sensor our engineers came across SONOTEC. We chose the air bubble detector ABD06 of the SONOCHECK-series – in a customized version. The small size and the approved safety functions were the main reasons that spoke for the sensor.” [Read more]
Technical Data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement principle</strong></td>
<td>Ultrasound</td>
</tr>
<tr>
<td><strong>Measurement method</strong></td>
<td>Flow measurement with transit time principle</td>
</tr>
<tr>
<td><strong>Channel width</strong></td>
<td>3.5 mm to 34 mm</td>
</tr>
<tr>
<td><strong>Outer diameter - tube</strong></td>
<td>4 mm to 35 mm</td>
</tr>
<tr>
<td><strong>Material - tube</strong></td>
<td>PVC, silicone, PTFE, PFA, FEP, TPE, Tygon, PE, etc.</td>
</tr>
<tr>
<td><strong>Material - sensor</strong></td>
<td>Aluminum, stainless steel, plastics</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>Display, inlay, handle</td>
</tr>
</tbody>
</table>

Downloads

<table>
<thead>
<tr>
<th>Type</th>
<th>Title</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDF</td>
<td>Flyer ultrasonic sensors for bioprocessing &amp; pharmaceutical applications</td>
<td>1.03 MB</td>
</tr>
<tr>
<td>PDF</td>
<td>Flyer SONOFLOW CO.55</td>
<td>222 KB</td>
</tr>
<tr>
<td>PDF</td>
<td>Theory of operation SONOFLOW CO.55</td>
<td>87 KB</td>
</tr>
<tr>
<td>PDF</td>
<td>Data sheet SONOFLOW CO.55 V2.0</td>
<td>659 KB</td>
</tr>
<tr>
<td>PDF</td>
<td>Data sheet SONOFLOW CO.55 V2.0 with stainless steel housing and display</td>
<td>780 KB</td>
</tr>
<tr>
<td>PDF</td>
<td>Data sheet SONOFLOW CO.56</td>
<td>567 KB</td>
</tr>
<tr>
<td>PDF</td>
<td>Data sheet SEMIFLOW CO.65 V2.0</td>
<td>1.50 MB</td>
</tr>
</tbody>
</table>

360° Produktansicht
APPLICATIONS

Heart-lung machines
Organ transport systems
Dialysis machines
Chemical spray systems
Slurry lines
Dosing systems
Bioprocessing
Pump protection
Vaccine manufacturing
Lab use

WORLDWIDE
Do you have any questions?

Melissa Öser
+49 (0)345 / 133 17-840
m.oeser@sonotec.de