SONOCHECK ABD05

For the Reliable Detection of Air Bubbles in Medical Applications Requiring Fail-Safe Operation

Advantages:

- Non-Invasive Measurement
- No Coupling Medium Required
- Built-In Electronics, No External Electronic Board Required
- Fail-Safe Version Available
- No Wear and Tear
- Optional Software for Parameterization and Testing

Get a Quote
The SONOCHECK air bubble sensors of type ABD05 detect air and gas bubbles in fluid-filled tubes and drip chambers. These intelligent sensors can be used for the monitoring of fluids as well as for wet/dry alarm notifications.

The non-invasive ABD05 bubble sensor has been specifically developed for very high safety requirements in medical technology products. The compact design allows the sensor to be used for applications with high hygienic requirements. The tube is simply inserted into the sensor with dry coupling, this enables a quick and uncomplicated changeover. The air-in-line sensors automatically adapt to dynamically changing acoustic conditions. This guarantees a high degree of measurement stability despite fluctuations in the surrounding environment.

The SONOCHECK sensors have a user-specific programmable micro-controller with extendable functionalities, such as e.g. fail-safe, serial communication or response time. The optimized safety concept leads to maximum reliability and patient safety. The air bubble detectors can be adapted for individual tubing sizes and other specifications, such as power supply, materials characteristics and signal output.

In addition to our standard sensors, we can also manufacture 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**

<table>
<thead>
<tr>
<th><strong>Measurement Principle</strong></th>
<th>Ultrasound</th>
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</thead>
<tbody>
<tr>
<td><strong>Bubble Sensitivity</strong></td>
<td>Bubbles Larger Than 1/3 of Internal Tube Diameter Are Detected</td>
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<tr>
<td><strong>Response Time</strong></td>
<td>Minimum: 0,5 ms</td>
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<tr>
<td></td>
<td>Typical: 1ms</td>
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<tr>
<td><strong>Power Supply</strong></td>
<td>+5 ± 0,2 VDC</td>
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<tr>
<td></td>
<td>≤ 60 mA</td>
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<tr>
<td><strong>Operating Temperature</strong></td>
<td>5 to 60 °C</td>
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<td><strong>Interfaces</strong></td>
<td>TTL</td>
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<tr>
<td></td>
<td>Serial</td>
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<tr>
<td></td>
<td>PWM</td>
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Standards

Acoustic Output (Ultrasound): IEC 61157:2007
"Failsafe" Version Available as an Option for Use in Medical Products, in Compliance with EN 60601

Downloads

<table>
<thead>
<tr>
<th>Type</th>
<th>Title</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>📄</td>
<td>Flyer SONOCHECK</td>
<td>650 KB</td>
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<tr>
<td>📄</td>
<td>Data Sheet SONOCHECK ABD05</td>
<td>175 KB</td>
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APPLICATIONS

- Dialysis and Transfusions
- Heart-Lung Machines
- Blood Separators
- Pumps for Medical Technology (Infusion, Heart, Feeding, Contrast Medium)
- Diagnostic Systems

DO YOU HAVE ANY QUESTIONS?

Then contact us! We're here to help.

+1 631 / 415 4758
sales@sonotecusa.com