

SONOCHECK ABD AIR BUBBLE SENSORS | MEDICAL DEVICES

for medical applications with very high safety requirements

PRODUCT BENEFITS

Different safety concepts

Non-invasive measurement

Compact & modular design

Built-in electronics, no external electronic board required

Application-specific microbubble detection

No coupling medium required

No wear and tear

Optional software for parameterization and testing

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SONOCHECK ABD05

Clamp-On Bubble Detector



SONOCHECK ABD07

Miniaturized Clamp-On
Bubble Detector



SONOCHECK ABD08

Clamp-On Bubble Detector



SONOCHECK ABD05 | ABD07 | ABD08 - RELIABLE BUBBLE SENSORS FOR USE IN MEDICAL TECHNOLOGIES

The non-invasive SONOCHECK ABD05 | ABD07 | ABD08 bubble sensor series has been specifically designed for very high safety requirements in medical devices. The smart sensors are applied to detect air and gas bubbles or foam in flexible plastic tubes filled with liquids such as blood, blood plasma, water or saline solution or are used for wet/dry alarm notifications.

In most medical applications, the sensors are intended to prevent air infusions which could lead to an endangerment of patients.

ABD AIR BUBBLE SENSORS FOR MEDICAL TECHNOLOGY - EASY PLUG & PLAY INTEGRATION

Compact design for applications with high hygienic requirements

Tubes are simply inserted into the sensor with dry coupling

Automated adaption onto dynamically changing acoustic conditions

SMART SENSORS WITH COMPREHENSIVE SECURITY ARCHITECTURE

SONOCHECK air bubble sensors of the ABD05 | ABD07 | ABD08 series incorporate intelligent ultrasonic transmission technology and innovative safety concepts in order to provide maximum sensor reliability. Depending on the sensor type, the various safety features include ...

Redundant sensors with two receivers and electronics,

Single channel design where the sensor performs cyclical self-tests and

Advanced fail-safe architecture where self-test routines are continuously performed without having any blind-times.

The non-invasive bubble sensors feature an asymmetric algorithm, which provides a dynamic adjustment to set the optimal operating point at any condition.

MEDICAL GRADE SONOCHECK ABD AIR BUBBLE DETECTORS - SENSOR OVERVIEW

	ABD05	ABD07	ABD08	
	Cyclical Self-Test	✓	✓	✓
Safety Concepts	Fail-Safe Architecture	✓		
	Redundant Design			✓
Integrated Electronics	✓	✓	✓	
Power Supply	5 VDC	5 VDC	5 VDC	
Software	✓	✓	✓	

	TTL Logic	✓	✓	✓
Outputs	Serial	✓	✓	✓
	PWM	✓	✓	✓
RoHS/REACH Certificate		✓	✓	✓
Miniaturization			✓	

Downloads

Type	Title	Size
	Data Sheet SONOCHECK ABD05	204 KB
	Data Sheet SONOCHECK ABD07	479 KB

APPLICATIONS

Dialysis and transfusions
 Heart-lung & ECMO machines
 Blood separators
 Pumps for medical technology (infusion, heart, feeding, contrast medium)
 Diagnostic systems
 Organ transport

SONOFLOW CO.56/CO.56 PRO | HYBRID FLOWBUBBLE SENSOR FOR MEDICAL DEVICES



WORLDWIDE



Do you have any questions?

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