

# MEDIUM CONTACT- LESS AIR BUBBLE DETECTION

*using ultrasound - from the outside  
through the tube*



**SONOCHECK**  
for the industrial field

**SONOTEC** 

*Precise detection  
Easy operation  
Customized solutions*

# SONOCHECK ABD06

for reliable air bubble detection

The SONOCHECK air bubble detectors of type ABD06 detect air and gas bubbles in liquid filled tubes and measuring cells. The intelligent sensors can be applied for liquid monitoring as well as for wet/dry indication.

The ABD06 has been developed for the use in the industrial field. The contactless detection principle constitutes the prerequisite for applications in fields with strict hygienic standards or for contamination-free purposes. The tube is easily put into the sensor and enables a smooth and uncomplicated change. The sensor adapts to dynamically changing acoustic conditions. Hence, a high reading stability against varying environmental conditions can be ensured.

The SONOCHECK sensors have a customized programmable microcontroller with extendable functionalities, such as response time. They can be adapted to individual tube sizes as well as other specifications, e.g. different voltages, switching outputs or materials.

## Product Characteristics

- Medium contactless detection
- No coupling medium required
- No influence of the medium colour
- Customized design
- Test for bubble simulation
- Adjustable threshold for bubble detection

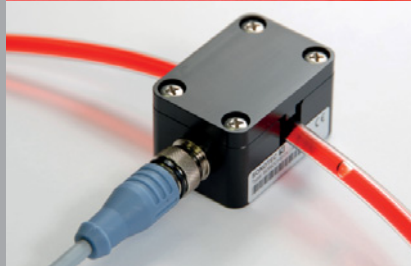
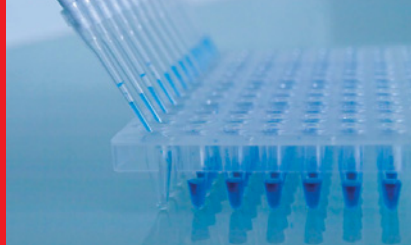
## Applications

- Pipette and filling systems
- Mixing and weighing systems
- Painting systems
- Surface refinement
- Fat dosing
- Adhering processes

SONOTEC preserves the right to change technical specifications without further notice. (Rev. 2 / 2013-12-04)

**SONOTEC** 

Certified to DIN EN ISO 9001 and EN ISO 13485



## Technical Data SONOCHECK Type ABD06

Measuring principle	Ultrasound
Measuring cycle	200 µs
Response time	Typical 1 ms
Outer Ø of tube	1.6 to 20 mm
Housing material	Plastics
Power, Power supply voltage, Output	≤ 50 mA (without load), +12 to 30 VDC, PNP output (max. 150 mA)
Working temperature, Storage temperature	+5 °C to +60 °C, -20 °C to +70 °C
Protection class	IP67
Accessories	M12 sensor cable, 3-pin ABD Monitor for parameterization and diagnostics
Directives/standards/CE	EMC: EN 61326-1:2006

### SONOTEC

Ultraschallsensorik Halle GmbH  
Nauendorfer Straße 2  
06112 Halle (Saale), Germany  
Tel.: +49 (0)345 / 133 17 -0  
Fax: +49 (0)345 / 133 17 99

Web: [www.sonotec.eu](http://www.sonotec.eu)  
E-Mail: [sonotec@sonotec.de](mailto:sonotec@sonotec.de)