

What are Bubble Sensors and Why are They Important?



Special sensors detect the presence of bubbles in a tubing material, as well as almost any type of fluid. Although this device is beneficial for several industries, it's particularly valuable to the medical sector. Using [bubble detectors](#), it's possible to identify problems in dialysis machines, lines used for infusions and transfusions, and more.

Bubbles prevent fluid from flowing steadily, which can lead to an array of problems. Most seriously, when a bubble detector or sensor finds something wrong with a medical line, it can prevent an air embolism. If not detected, air bubbles can enter a patient's artery or vein. That stops blood from flowing, which creates a life-threatening situation.

Types of Air Bubble Detectors

Companies that specialize in bubble detectors have different product options depending on the method used. The following are some of the unique devices available and brief information on how they work.

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- **Photoelectric Air Bubble Detector** – As an optical sensor, this device detects pockets of both air and fluids inside a piece of tubing. If the sensor’s beam of light becomes blocked, as after meeting the threshold, the detector’s output switches. Although this is a viable option, for this particular type of sensor to work effectively and reliably, it must get calibrated according to the kind of liquid.
- **Ultrasonic Detector** – This bubble detector or sensor produces ultrasonic waves on one side. Then, they pass through the tubing to a transducer on the other end. This method of detection works great, and it is a non-invasive approach. As for calibration, that’s only required once in the factory.

Making the Right Choice

It’s important to select the right type of detection system based on the application. The goal, regardless, is to choose an air bubble detector that produces accurate results. Ease of use and cost are other factors to consider. Keep in mind that each device works somewhat differently. So, proper training to operate one is essential.

The following are some of the top-rated bubble detectors available:-

- AD8/AD8 Series
- ADU Series
- BD8/BD9 Series
- MABS (Miniature air bubble detector)
- BDR/BDS/BDRI

Partner With a Specialist

At [Introtek International](#), we do more than sell a bubble detector or sensor. We also have a highly creative design team for custom orders and dedicated workers who manufacture these devices. As experts in the field of fluid detection and with more than 40 years of experience, we feel 100 percent confident we can accommodate your needs.

A representative will gladly answer all your questions and guide you through the selection process. Feel free to reach out today.

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