

Application

Detect liquid level in a tube using the UNAR 18.

Industry

Equipment for chemical analysis
Laboratory automation
Bottling applications
Process industry
PCB manufacturing / handling

Application Overview

The measurement of liquid is a necessary step in many different applications such as in tanks, tubes, and even glasses. A majority of the time, it is required for a sensor to be used to measure liquid in a harsh environment.

Application Challenges

The media in these applications, such as liquids or emitted gases, can have a long-term detrimental effect on the materials and thereby the functions of standard sensors.

Due to the harsh liquid in the tank, a normal sensor will not function properly in the tank for a long period of time. The liquid, vapors and gases emitted in this environment can corrode and attack the front of the sensor. This can lead to permanent damage or even total failure.

Solution(s)

The best solution for this application is an ultrasonic sensor. The UNAR 18 has compact stainless steel housing and has a special parylene coated transducer. Parylene combines the required properties of excellent adhesion to the materials to be protected-ceramic and PUR-with an exceptional barrier effect to most substances used in modern processes such as organic acids and alkalis, organic solvents and water vapor, and even at the required layer thickness of just a few microns. This sensor survives nearly every chemical medium. The compact housing allows the installation in limited space. The high resolution guaranties an accurate level measurement.

Supporting Documentation

- Baumer Sensor Solution Catalog
- UNAR technical paper



UNAR 18 for level measurement in equipment for the liquid analysis

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