

If a friend forwarded this email and you would like to receive it in the future, [subscribe directly and stay up-to-date!](#)

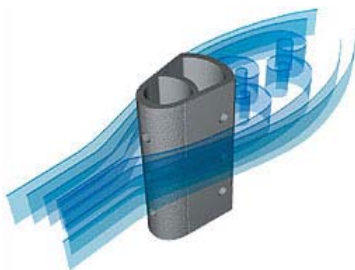
ValvesSensorsSystems

MeasurIT Technologies Ltd. are pleased to introduce you to our January 2010 technical product update.

Yours sincerely,
 Zoe Williams,
 zoe@measurIT.com, +353 (0)53 942 8962
 www.measurIT.com

How Differential Pressure Sensors work?

The [Verabar differential pressure sensor](#) senses the natural averaged pressures created by the velocity of the fluid.



When the fluid impacts the sensor, it creates a high-pressure zone (greater than the pipe static pressure) in front of the sensor. As the fluid moves past the sensor, it accelerates and a low-pressure zone is created to the sides and rear of the sensor. Alternate vortices are shed as the fluid separates from the sensor and a partial vacuum is formed at the rear of the sensor. [read more >](#)

Case Study: Large Sanitary Tanks

Application

Level measurement in large sanitary tanks of food grade product.

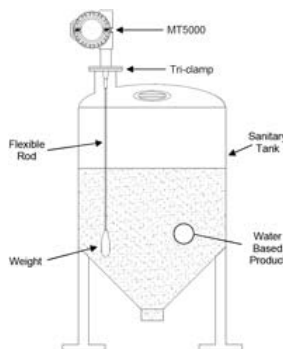
Solution

[MT5000 Guided Wave Radar Transmitter](#) equipped with a flexible rod probe.

How It Works

The MT5000 Guided Wave Radar transmitter pulses microwave energy down the length of its antenna which reflects back from the surface of the product being measured.

Food products are typically water based and provide a good reflection on a single probe. More often than not, the industry will require that all wetted parts have a smooth, sanitary finish to prevent bacterial growth.



Because the probe is a solid rod, it can be mechanically and electrically polished to meet the requirements. The flexible nature of the metal used allows easy installation of the probe in areas with limited head space... [read whole case study >](#)

See also: [Level Transmitters - laser, ultrasonic, magnetic..](#)

Contact us!

We will be happy to answer your questions.



New Literature

measurIT technologies

Mass Flowmeters, Flow & Level Switches

Rugged, accurate, repeatable superior quality designs have made FCI the leader in thermal dispersion mass flow meters, flow switches and level switches for **industrial process measurement applications**. FCI air and gas flow meters are applied from small dosing lines to the largest stacks.

- [Presentation - technology, products, applications >](#)
- [Flowmeters - more info >](#)
- [Flow & level switches - more info >](#)
- [How thermal dispersion sensors work >](#)



Water Level Measurements

[KSONIK Micro](#) is a **low cost compact level transmitter** (with integral transducer).

Application - liquids and solids:

- raw water,
- waste water,
- slurries,
- diesel,
- bulk solids, coal, rock.

The [KSONIK Micro](#) is mounted on top of the vessel or tank. The microprocessor fires a pulse that travels to the level that is being measured and is reflected back to the sensor. [read more >](#)



Air Operated Pinch Valves

Miniflex Valves are pneumatically actuated, using the valve body as a built-in actuator.

Air pressure opens and closes the rubber sleeve, eliminating costly actuators or electric motors and the accompanying maintenance costs.

Miniflex Valves are the simplest and least expensive control valves available to industry today. They are designed with threaded end connections, enabling use on small lines (DN6-DN50). [read more >](#)



Focus On..