

A high-speed photograph of water splashing, creating a dynamic and energetic scene. The water is captured in mid-air, with numerous droplets and a large, billowing splash. The lighting is bright, highlighting the clarity and texture of the water. The overall color palette is a range of blues, from light sky blue to deep, dark navy blue.

**Gentech**  
SENSING SOLUTIONS

Sensing Solutions  
for Water  
Applications

With more than 40 years experience in level sensor design and technical expertise, Gentech's understanding of the sensing requirements of water-based applications in today's market is unparalleled.

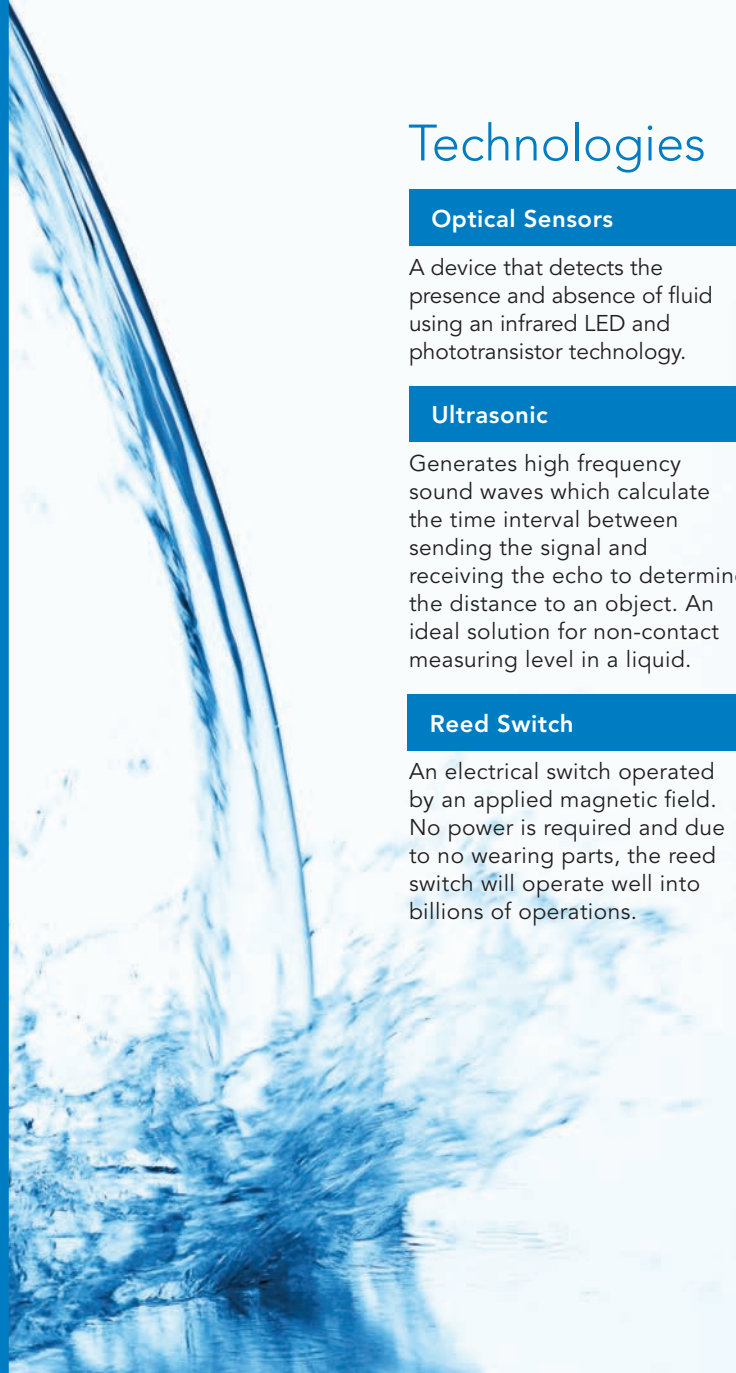
Gentech supply a wide variety of fluid sensors for use in applications such as storage and collection tanks, vending machines, disability showers, heat exchangers, washing machines, central heating systems and boilers. Our trademark stands for innovation, flexibility and reliability.

Established in 1969, UK-based Gentech rapidly evolved from its initial role as a producer of magnetic reed switches to becoming a global supplier of a wide range of sensing products. We continue to grow and innovate in step with the demands of the market.

We collaborate with our customers and supplier partners around the world to develop sensors that measure exact level, flow and position, incorporating the most appropriate technology for the application. In addition, Gentech offer a range of standard sensors which cover a broad base of our customers' needs.

Our ability to offer packaged solutions globally, delivering locally for specialist applications, makes us stand out from our competitors.

We pride ourselves on providing our customers around the world with support from our expert design and development team.



## Technologies

### Optical Sensors

A device that detects the presence and absence of fluid using an infrared LED and phototransistor technology.

### Ultrasonic

Generates high frequency sound waves which calculate the time interval between sending the signal and receiving the echo to determine the distance to an object. An ideal solution for non-contact measuring level in a liquid.

### Reed Switch

An electrical switch operated by an applied magnetic field. No power is required and due to no wearing parts, the reed switch will operate well into billions of operations.

## Flow Series



### FCS Series

Flow switch available in 3/8" BSP & NPT fittings. Now available in PPS, Noryl and polypropylene. Switch point is 0.6l/min.



### FS Series

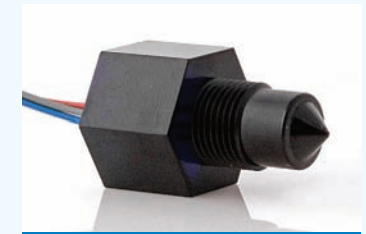
The Flow Switch range is available in 3/4" BSP + APT fittings, in brass, Noryl and copper material. Low voltage and AC control circuitry. Switches at less than 1 L/min.

## Solid State Level Sensors



### USS Series

The easily calibrated ultrasonic sensor is suitable for level measurement between 0.3 and 1 metre in depth. One sensor can fit all applications.



### OS Series

The Optical Sensor is ideal when space is limited. Installation is simple and quick through the side or bottom of the tank. This sensor is a solid state device.

## Level Sensors



VSS Series

The VSS range of sensors, manufactured in stainless steel, are suitable for mounting internally and vertically into the tank.



VCS Series

The VCS is a compact sensor mounted internally and vertically into the tank. Manufactured in a range of plastics and suitable for a number of liquids including boiling water.



LS Series

The LS range are for side mounting on tanks and can be positioned internally or externally.



RCS Series

The right angled sensors are for side mounting on the tank with vertical float travel and can be placed externally or internally.

## Applications

- Storage tanks
- Collection tanks
- Drinks vending machines
- Boilers
- Shower units
- Disabled showers
- Heat exchangers
- Mains water control
- Central heating systems
- Dishwashing systems
- High pressure cleaning machines
- Condensate Trays
- Air Conditioning units
- Leak detection



## Gentech Flow Switch deployed in Nu-Heat heater systems

Nu-Heat, the UK's largest specialist supplier of warm water and under-floor heating systems, have found an excellent application for Gentech's FS-13 Flow Switch in their EnergyMaster™ heater system.

The switch is an integral part of the Thermal Store Cylinder which provides heating for the under-floor system and safe domestic hot water at mains pressure with an average temperature of 50°C, via a thermal exchange unit. More efficient than conventional boilers, the system saves up to 15% on heating bills.

The EnergyMaster™ Thermal Store Cylinder operates differently to conventional cylinders as it does not store domestic hot water. Mains water is heated instantaneously when it flows through the cylinder's heat exchanger under mains pressure. This activates our Flow Switch, which runs the cylinder's shunt pump, therefore allowing boiler water to be drawn through the primary side of the heat exchanger and for heat to be transferred to the mains water.



ISO/TS 16949:2009



## Benefits of working with Gentech

- Single source supplier for a wide variety of sensors for the water industry, thus keeping your supplier base to a minimum.
- Multiple sensor technologies for the exact solution.
- Lean manufacturing and advanced design techniques ensure the best design solution.
- Direct access to our highly experienced design and development team.
- Gentech locates strategically to support you.

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