



## Benefits of working with Gentech

You have direct access to our highly experienced design and development team.

We are a single source supplier for a wide variety of sensors for agriculture and construction vehicle manufacturers, thus keeping your supplier base to a minimum.

Multiple sensor technologies allow the appropriate solution to be supplied.

Gentech locates strategically to support you, keeping our logistic network to a minimum.

Lean manufacturing and advanced design techniques ensure the best design solution for you, our customers.

Gentech International Ltd  
Grangestone Industrial Estate  
Girvan  
Ayrshire KA26 9PS  
United Kingdom  
Tel: +44 1465 716999  
Fax: +44 1465 714974  
info@gentechensors.com

gentechensors.com



Designing sensing solutions today, for tomorrow's application demands



Sensing Solutions  
for Agriculture  
& Construction

Building on 40 years experience in level sensor design and technical expertise Gentech understands the sensing requirements of today's agriculture and construction vehicle manufacturers.



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 collaborate with customers and supplier partners around the world to develop sensors that measure level, flow and position, incorporating the most appropriate technology for the application.

Offering packaged solutions globally, delivered locally for specialist applications, makes Gentech stand out from competitors. We sell direct to Original Equipment Manufacturers, Tier 1, 2 or 3 suppliers for custom solutions, and through our own extensive distributor network.

We pride ourselves on providing customers around the world with excellent, extensive support from our experts in sensing design and development.

## Applications



**AdBlue® Tanks**

SCR sensing solutions to measure the presence, level and temperature of AdBlue®. These can be fitted with heaters and a Quality Sensor if required.



**Washer Bottles**

Reed switch technology is used to detect low level fluid. Available as a standard product or can be custom designed.



**Oil Tank / Sump**

Fuel level is measured using reed switches and a ladder of resistors giving an analogue output.



**Reed Switch**

An electrical switch operated by an applied magnetic field. No power required. Fitted with non-wearing parts, the Reed Switch will operate well into billions of operations.



**Ultrasonic**

Generates high frequency sound waves to calculate the distance to an object and therefore perfect for non contact liquid level measuring.



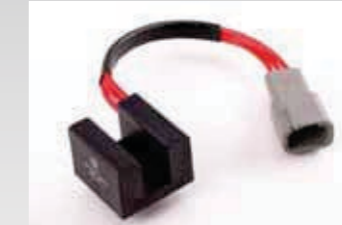
**Giant Magneto Resistor Sensors**

A solid state device which is suitable for small space applications requiring accurate level detection.



**Level Sensor**

Reed switches with integral magnet supplied in variety of forms, to measure fluid levels.



**Vane**

Reed switch sensor with an integral magnet. Used for seat positioning, hand and foot brake operation, and front hatch movement.



**Coolant / Expansion Tanks**

Sensors, either reed or Giant Magneto Resistive (GMR), can be designed with multi position outputs to warn of low coolant levels and to provide further warning of critically low levels.



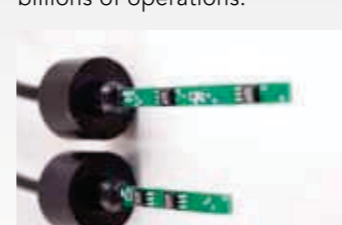
**Fuel Tanks**

Fuel level is measured using reed switches and a ladder of resistors giving an analogue output.



**Safety Interlocks**

Positional sensors can detect an open window/door. They can be connected to safety equipment to monitor vehicle security and notify driver of any unauthorised opening of window/door.



**Hall Effect**

This transducer varies its output voltage in response to magnetic field. A solid state device with continued repeatability, perfect when space is limited.



**Optical Sensors**

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



## Switch Types



**Tilt**

Non mercury tilt switch which changes state when it moves to an angle of 10 degrees. Ideal for truck bonnet movement detection.



**Positional**

Reed switch sensor supplied with separate magnet. Used in unauthorised door/window operation.

## SCR Sensors



Our Selective Catalytic Reduction (SCR) sensors detect the presence of and measure the level and temperature of AdBlue®, generically known as Diesel Emission Fluid (DEF).

We can modify the height and length of this fully customizable universal sensor to accommodate tank geometry. Manufactured to TS16949 standards, SCR sensing solutions help manufacturers to reduce emissions and avoid the high penalties associated with non-compliance of EPA 201, EURO IV, V and VI and JP 09 legislation.

We help our customers to reduce emissions, keep vehicles on the road and ultimately keep costs down.

ISO/TS 16949:2009