

## Fuel level senders

June 2011

Motorsport



### Customer

A well respected UK designer and manufacturer of a wide range of high performance bladder style fuel cells. Used by race car constructors and other similar high end engineering specialists, the bags must be durable, rugged and capable of withstanding challenging environmental conditions.

### Application

Fuel level sensing. The customer was paying an extremely high price for a fuel level sensor which Fozmula was building almost as a standard product.

### Product

There were several design considerations to be taken into account but the main criterion was for the sensor to be compatible with the many different types of race fuels used. High performance engines require a high performance fuel and this is created by incorporating a number of additives, such as ethanol, to make quite an aggressive mixture, but our advanced sensor design required that just the Viton seals were replaced with PTFE material.

Initial design approval was given and a large amount of vibration, shock and environmental testing was conducted by various race teams. This was then followed by extensive field testing in Northern Europe and parts of Africa before the design was signed off for production.



Fozmula is very pleased to be supplying such a high profile and prestigious company with a custom designed product. This is one more in a long list of application based products which Fozmula has designed and put into production.