



FOZMULA  
LIMITED



INSTRUMENTATION

LIQUID LEVEL SWITCHES

LIQUID LEVEL TRANSDUCERS

MECHANICAL CONTENT GAUGES

HYDROSTATIC MEASURING SYSTEMS

CAPACITANCE SWITCHES AND SENDERS

TEMPERATURE SWITCHES AND SENDERS

TEMPERATURE MONITORING AND CONTROL

LIQUID LEVEL MONITORING AND CONTROL

ENGINE MONITORING INSTRUMENTATION

PRESSURE MONITORING AND CONTROL

PRESSURE SWITCHES AND SENDERS

TACHOMETERS & HOURCOUNTERS

SWITCHES AND SENDERS

LIQUID LEVEL SENDERS

CAPS AND GAUGES

• LEVEL • PRESSURE • TEMPERATURE • MONITOR • GAUGE • SENSE • SWITCH • MEASURE •



## ■ Electromechanical

### Vertical Float Switches

A comprehensive range of vertical float switches available in standard and heavy duty form using the reliable reed switch and magnet principle.

- Bespoke manufacture to customer specification.
- Choice of materials, reed switch rating and switching operation, electrical connection.



### Side Entry Float Switches

A wide selection of single level switches available in various materials.

- Standard ranges typically available from stock.
- Choice of materials, switching operation, mounting options and electrical connections.



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### Tank Level System

The system comprises a tank level controller with analogue level display which receives a continuous signal from a matching transducer.

- Transducer is matched to the tank and delivers a level indicating resistive signal.
- The controller has various voltage inputs and signal outputs together with 4 user adjustable relays.

### Overfill Alarm Switch

Comprises single high level float switch and indicator panel to warn of liquid overflow. Ideal for monitoring overflow of remote or inaccessible tanks.

- Float switch wetted parts Polypropylene and PVC with reed switch rated at 0.5 Amps, 10w.
- Remote panel provides clear indication, (via Red LED), of tank overflow.



### Adjustable Float Switches



User adjustable vertical float switch with DIN connector. Available with optional temperature switch and mounting flanges.

- Adjustable for switching sense and switch position.
- Supplied in standard lengths of 500mm, 1.0M or 1.5M.



## ■ Mechanical

### Vertical Spiral Contents Gauges

A robust vertical contents gauge using magnetic coupling to display the liquid level changes to the indicator dial. Available with an electrical interfacing dial with optional switch points.

- No leak path into the indicator capsule or from tank.
- Max length 1M.
- Replaceable dial facia.



### Swing Arm Contents Gauges

A magnetically coupled gauge using a float to drive the indicator pointer. The float arm is user adjustable to fit the tank and the indicator dial has a 270° sweep dependant on variant.

- Available as top or side mounting via a welding pad.
- Maximum tank depths are top mounting – 1M, and side mounting – 1.5M.
- Replaceable dial facia.



### Vent Valves



Designed to meet UL requirements for tank venting.

- Available in a range of thread sizes and tank vent pressures.

### Leakage Detection Switches

Designed to identify the presence of liquid in the bund space of double skinned bulk storage containers at the point of fill.

- Battery powered, with a battery life of 5 years (passive).
- Can be retrofitted to most double skinned tanks.



## ■ Hydrostatic

### Open Hydrostatic Content Gauges

A family of 52mm diameter (panel mounted) open system hydrostatic tank content gauges which incorporate an integral push button to "prime" system prior to reading the tank contents.

- Available to measure liquid depths up to 1.4M of Water, or 1.8M of diesel fuel.
- Ideally suited for retrofit to existing tanks.



### Closed Hydrostatic Tank Content Gauges

A family of hydrostatic tank content gauges supplied complete with a transmitter for continuous level reading.

- Available in either 100mm diameter, or 150 and 200mm diameter dial facia designs.
- Gauge can be mounted remotely from tank.





## ■ Solid State

### Capacitance Liquid Level Switches

Designed to be mounted horizontally at the appropriate switching height. Models are available for sensing water/coolant levels or diesel/oil levels. All models have an inbuilt time delay feature to negate the risk of intermittent switching through fluid turbulence.

- Built in self test function.
- Integral automotive style connector.



### Temp Sensors and Switches

A comprehensive range of thermistor based temperature sensors, and thermostatic switches, including dual temperature switches.

- Many standard thread sizes and temperature ratings.
- Custom design facility to suit most applications.



### Capacitance Fuel Level Sensor

Designed to give continuous readout of tank contents. Employs an electrically damped output to reduce the effects of fluid turbulence.

- Outputs of 10-180Ω or 240-33Ω with a low level alarm.
- For tank depths between 200mm and 1000mm.





## ■ Distribution Product

### **KELCH Caps and Gauges**

A vast range of tank gauges, filler caps and dipsticks which can be customised with colours, scale markings and alternative materials. Additionally, caps can be specified with a key operated lock or a retaining lanyard.

- Gauges available from 127mm (5") to 610mm (24") in 6mm (1/4") increments.
- Mounting via either screw or bayonet fitting.



### **Rochester**

A comprehensive range of industrial and marine liquid level control and monitoring gauges to suit a wide variety of applications.

- Includes the "Rough Rider" range of swing arm fuel level senders, and the "Twinsite" range of dial capsules to allow direct readout of tank contents together with remote signal function.



### **'V' series instruments**

A comprehensive range of 52mm and 60mm panel mount analogue instruments to monitor water and oil temperature, oil pressure, battery volts, amps, fuel level and hours run. They are complemented by a range of 100mm Tachometers, Speedometers.

- Cost competitive.
- Available from stock.
- Standard 10-180Ω resistance match.



### **Temperature and Pressure Switches, Senders and Switch Senders**

A comprehensive range of switches and senders to drive the 'V' Series range of instruments above. Standard 10-180Ω match available.

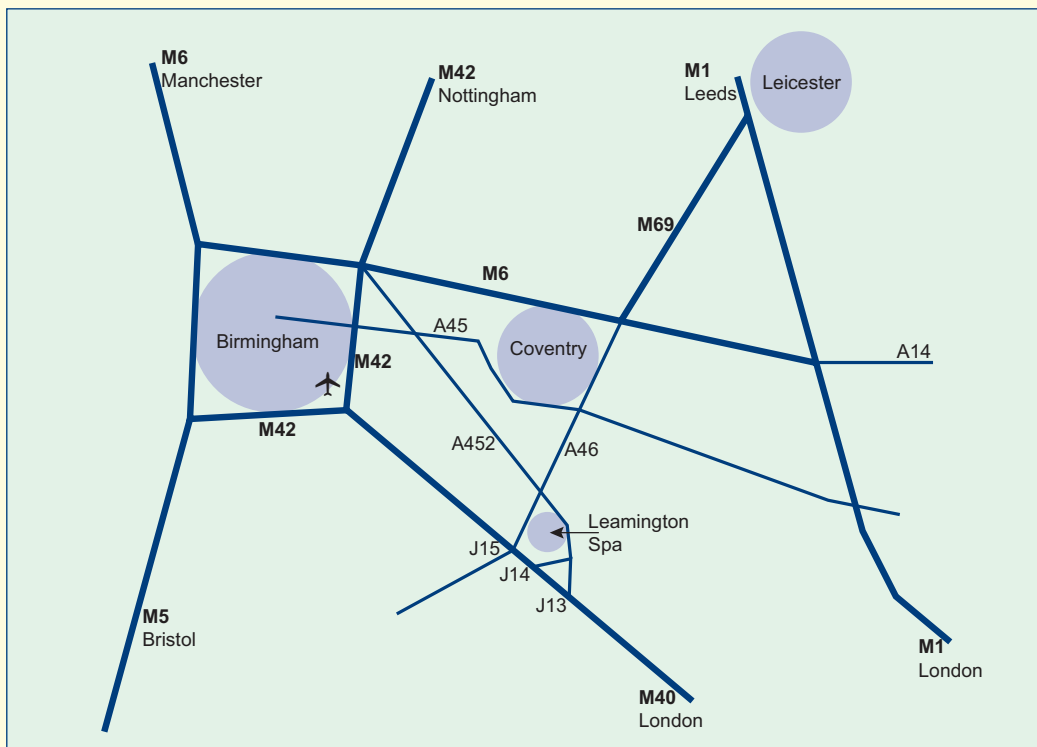
- Available with a variety of termination options and thread sizes.
- Available from stock.



Fozmula Limited is a private limited company founded in 1977 for the purpose of designing and supplying liquid level sensors and controllers to industry. Today, Fozmula occupies factory space of 17,680 sq. ft. and employs 40 people with a turnover exceeding £3.5M. An associated company, Fozmula Far East Pte Ltd, is based in Singapore and is actively selling Fozmula products to Pacific Rim markets.

The company designs, manufactures and markets a wide range of electromechanical, mechanical and electronic sensors and gauges for equipment requiring liquid level, temperature and pressure measurement. All these products are subjected to the requirements of our ISO EN 9001:2000 accreditation.

Fozmula has grown and prospered due to a lively innovative development programme which has ensured its products are always to the fore in the various markets which it serves. Fozmula is actively exploring different technologies in order to improve its various products and satisfy customer demands. Its policy has always been one of continual improvement and excellence and this has manifested itself in the company's growth.



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