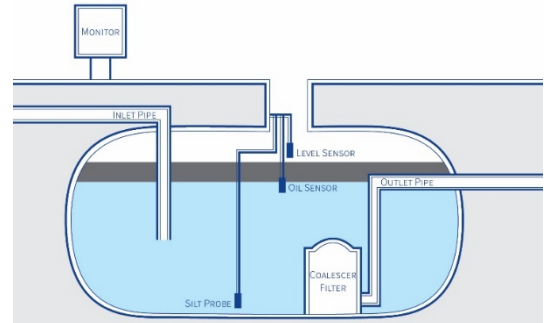


## PROBES

Darcy manufacture a range of probes to detect liquid levels or silt within vessels and containers such as tanks, separators, washdown units or cesspools.

Each of our probes are designed specifically for that application and are connected to our control panels that will determine the fault and issue an alarm accordingly.

Please see below a selection of our probes.



## HIGH OIL CONDUCTIVITY PROBE

The High Oil Probe is designed to detect the presence of oil or water and will only cause an alarm when excessive oil is present.

The depth of oil allowed to accumulate inside a tank before an alarm is raised will be determined by the position of the probe below the static liquid level.

The 2 pieces of stainless steel act as conductors, when the probe is fully immersed in water, a circuit is formed between the conductors. When one or both of the conductors are out of water, i.e. in oil, the circuit is broken and a signal is returned to the separator alarm panel.

### Benefits

- Rugged construction
- Stainless Steel conductors
- Resin insulator
- No moving parts
- 5 metres of cable
- Flexible strain relief cable gland
- Simple apparatus



## HIGH OIL PROBE

The sensor works on a Specific Gravity principle whereby a simple inverted float switch design will trigger an alarm back to the control panel when a level of oil is present; and the probe falls to a 'down' position. The depth of permitted oil is determined by the position of the probe.

When no oil is present the probe will float on the water inside the tank and return a 'correct' signal.

### Benefits

- 5 metres of cable
- Can be retro-fitted to most applications
- Level float switch operation
- Flexible strain relief cable gland



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## HIGH LEVEL LIQUID PROBE

The High Level Liquid Probe is designed to monitor for excessive liquid levels within tanks, separators, washdown units or cesspools.

The sensor uses a simple float switch design, which when triggered, will send an alarm signal back to the control panel.

### Benefits

- Simple apparatus
- 5 metres of cable
- Can be retro-fitted to most applications
- Level float switch operation
- Flexible strain relief cable gland



## HIGH OIL PROBE (C)

The High Oil Probe is installed within the float chute inside the separator tank. The probe is designed to detect the presence of oil on water. The depth of oil allowed to accumulate inside a tank before an alarm is raised will be determined by the position of the probe below the static water level.

The sensor works on a Specific Gravity principle whereby a simple inverted float switch design will trigger an alarm back to the control panel when a level of oil is present; and the probe falls to a 'down' position.

When no oil is present the probe will float on the water inside the tank and return a 'correct' signal.

### Benefits

- 5 metres of cable
- Can be retro-fitted to most applications
- Specific Gravity design
- Flexible strain relief cable gland



## SILT PROBE

Too much silt in a separator tank reduces its storage capacity and therefore increases the risk of a pollution incident. The Darcy Silt Probe is simply suspended within the separator tank to a depth required to detect the maximum amount of silt allowed.

The Opto Switch Sensor consists of a gallium arsenide infra-red emitting diode coupled with a silicon photo darlington in a plastic housing. The packaging system is designed to optimise the mechanical resolution, coupling efficiency, ambient light rejection, cost and reliability. The gap in the housing provides a means of interrupting the signal with opaque materials such as sand, silt, mud, sludge etc, therefore switching the output from an "ON" to an "OFF" state.

### Benefits

- Stainless/nylon probe housing 38mm dia.
- Opto Switch sensor device
- 5 metres of cable (standard)
- Flexible strain relief cable gland



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