

SELECTING CONTAINMENT MONITORING SENSORS

No matter what the application is, we have a containment monitoring solution to fit your needs. From dispenser sumps and turbine sumps, to tank interstitial spaces and monitoring wells, we have a sensor option to meet your requirements.



THERE ARE TWO TYPES OF SENSORS...



NON-DISCRIMINATING SENSORS

These sensors are able to detect and send an alarm signal if the presence of liquid appears inside of a containment space.



DISCRIMINATING SENSORS

These sensors are able to detect and send an alarm signal if the presence of liquid appears inside of a containment space and can also differentiate between liquid and hydrocarbons (fuel).

TANK GAUGE REQUIREMENTS

All sensors require an EVO™ Series fuel management system. Depending on the sensor type, either two-wire or three-wire sensor modules are used to power and control the sensors.

Sensor								
Discriminating Capability	✓	✓	✓				✓	
Non-Discriminating				✓	✓	✓		✓
Turbine Sump Applications		✓	✓	✓				
Dispenser Sump Applications	✓		✓	✓				
Tank Interstitial Space Applications				✓		✓	✓	✓
Position Sensitive (Tamper Protection)			✓					
Hydrostatic Monitoring Capability					✓			✓
EVO 200 / EVO 400 Model Number	FMP-DDS-U	FMP-DTS-U	TSP-DMS	FMP-ULS	FMP-UHS	FMP-EIS-U	FMP-DIS-U	FMP-HIS-U FMP-HIS-XL-U
EVO 550 / EVO 5000 Model Number*	FMP-DDS	FMP-DTS	TSP-DMS	FMP-ULS	FMP-UHS	FMP-EIS	FMP-DIS	FMP-HIS FMP-HIS-XL
Typical Application	Dispenser sump applications requiring discriminating capabilities	Turbine sump applications requiring discriminating capabilities	Turbine or dispenser sump applications with tamper protection regulations in place	Turbine and dispenser sumps or drop-down tank interstitial space	Hydrostatic monitoring of a liquid in a double wall sump interstitial space	Dry double wall tank applications including fiberglass and wrap-around	Dry double wall tank applications requiring discriminating capabilities	Double wall tank interstitial space filled with brine solution

*EVO™ 550 and EVO™ 5000 may support additional sensors



LIQUID SENSOR (ULS)

The liquid sensor (ULS) is a low cost sensor which may be used with all EVO™ Series fuel management systems. This sensor is also compatible with S940 Sensor Alarm Console. Based on float-switch technology and made of chemically-resistant materials, the ULS may be installed in sumps, dispenser pans, steel double wall tanks or other locations where the presence of liquid indicates a leak has occurred.

Highlights

- Highly reliable float technology and closed output circuit ensures that leaks are detected.
- Chemical-resistant materials assure compatibility with most liquids.

Model	Description
FMP-ULS	Universal liquid sump sensor (EVO™ 200 & EVO™ 400, EVO™ 550 and EVO™ 5000)
TSP-K12	Interstitial sensor riser cap kit for 2" riser pipes

Note: This sensor communicates with the ATG using 2 wires.

Application

For dry steel tank interstitial and containment sump monitoring.

Installation

Each ULS sensor comes with a 25' cable. ½" NPT thread is provided on the compression gland fitting attached to the sensor's cable, allowing it to be suspended from standard electrical boxes and fittings. The sensor may be positioned vertically by adjusting cable length. For steel interstitial tanks, ULS is lowered into the opening provided on the tank and is suspended by optional TSP-K12 installation kit. Other mounting methods available depending upon application and location.



UNIVERSAL HYDROSTATIC SENSOR (UHS)

The Universal Hydrostatic Sensor (UHS) uses float switch technology to continuously monitor liquid filled double wall containment sumps. Normally submerged, the single float UHS will provide an indication if there is a loss of monitoring liquid.

Highlights

- Highly reliable float technology and closed output circuit ensures that leaks are detected.
- Chemical-resistant materials.

Model	Description
FMP-UHS	Universal hydrostatic sensor (EVO™ 200 & EVO™ 400, EVO™ 550 and EVO™ 5000)
HM-KIT	Hydrostatic monitoring installation kit. Includes: flexible brine tube, sensor housing clamp, sensor housing, sensor cap, and hardware

Note: This sensor communicates with the ATG using 2 wires.

Application

Typically used for hydrostatic monitoring of the liquid in a double wall sump interstice.

Installation

Each UHS sensor comes with a 25' cable. The sensor can be installed into the reservoir of a liquid filled double wall containment sump. The sensor must be installed in a vertical position at a level where it is normally submerged. The UHS sensor will alert if the liquid level drops below the bottom of the sensor.