

The FMC INVALCO Model HSS 1056 Floating Oil Thickness Monitor consists of a unique sensing probe that continuously monitors a water surface to control pumps, operate valves, or activate alarms.

The capacitance technology does not foul or require cleaning. There are no moving parts and the remote alarm unit mounts safely away from wetted parts.

The sensing probe monitors the capacitance field between the probe and its concentric shield. As the volume of separated oil increases on the water surface, the probe capacitance changes. This proportional change is used to indicate the separated oil level and provide relay control and outputs.

### Features and Benefits

- No moving parts
- Remote electronics via standard twisted pair
- One controller can maintain up to 2 float sensors
- Available with Intrinsic Safety Barrier for Hazardous Locations
- High corrosion resistant Teflon and stainless steel wetted parts
- Capacitance technology responds to all oil types
- HF capacitance technology does not require routine cleaning
- Easy calibration and control set up

### Specifications - Control Unit

#### Operating Temperature

32°F to 122°F (0°C to 50°C)

#### Power Input

24 vdc or 110 vac or 220 vac

#### Analog Output

4-20 mA proportional to oil level

#### Interface

RS-485 Modbus available

#### Display

Backlit display of oil level

#### Alarm Relays

4 x 10 amp, SPDT, dry

#### Standards

UL, CSA, CE

#### Enclosure

Type 4X, IP65



### Specifications - Probe

#### Operating Temperature

32°F to 122°F (0°C to 50°C)

#### Range

0 - 600mm or 0 - 25mm +/- 1mm

#### Approval

CSA Class 1, Zone 2 Div 2, Groups A, B, C, D (when used with Intrinsic Barrier option)

### Additional Information



All calibration, control relays and power wiring is available at the main control unit. This can be safely mounted up to 1 km away from the sump. The four line backlit display provides menu driven set-up functions and a display of up to two probe inputs.



The unique PMC circuit design immediately converts the sensor signal to a frequency pulse for furtherance to the controller.



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The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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