

# Floating Oil Thickness Monitor

Continuous monitoring of separated oil thickness on a water surface

Over 30 years of Arjay's field proven HF capacitance technology has been applied to the 2114-HCF oil thickness monitors. The unique sensing probe continuously monitors a water surface to control pumps, operate valves, or activate alarms.

- capacitance technology does not foul or require cleaning
- no moving parts
- remote alarm unit mounts safely away from wetted parts



# 2114-HCF

The 2114-HCF 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 monitor 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

## ■ Technical Specifications - Control Unit

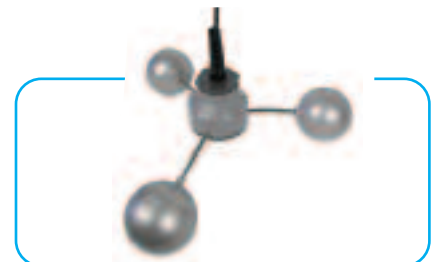
Operating Temperature	0°C to 50°C
Power Input	24 vdc or 110 vac or 220 vac
Analog Output	4-20 mA proportional to oil level
Interface	RS-485 Modbus available
Display	backlit display of oil level
Alarm Relays	4 x 10 amp, SPDT, dry
Standards	UL, CSA, CE
Enclosure	Type 4X, IP65

## ■ Technical Specifications - Probe

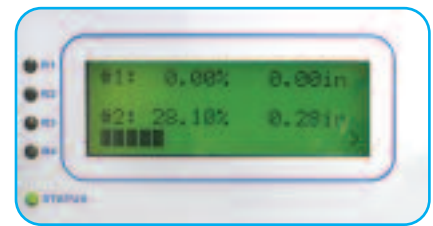
Operating Temperature	0°C to 50°C
Range	0-600mm or 0-25mm. +/- 1mm
Approval	CSA Class 1, Zone 2 Div 2, Groups A,B,C,D (when used with Intrinsic Barrier option)



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



Available with 0-25mm sensor.



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.