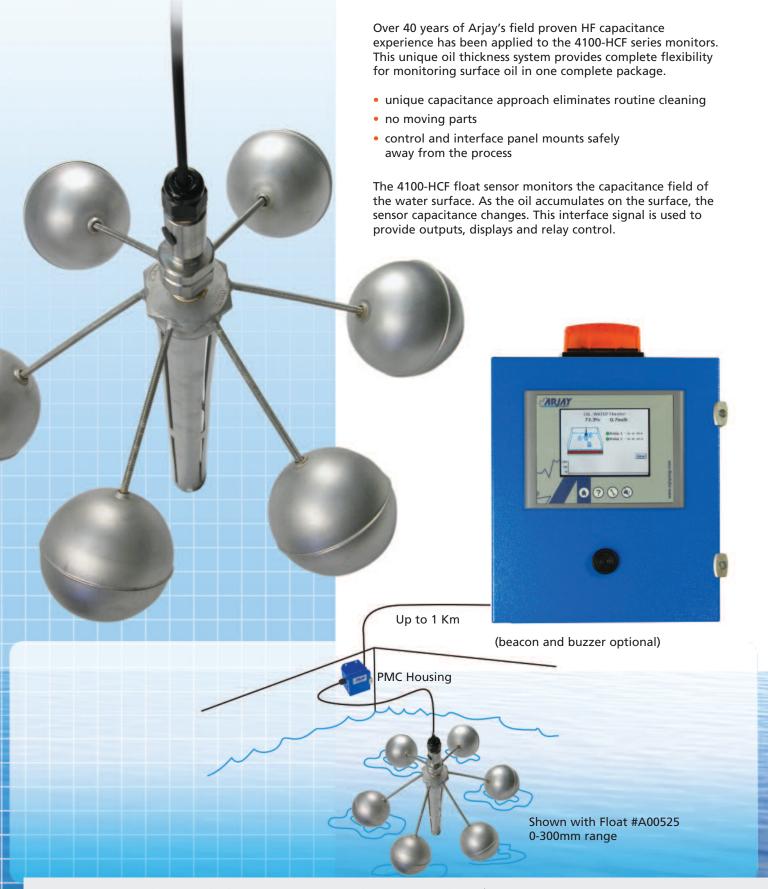
4100-HCF Floating Oil Thickness Monitor



Continuous monitoring of separated oil thickness on a water surface



4100-HCF

Features and Benefits

- no moving parts
- remote electronics via standard twisted pair
- all set-up, calibration and diagnostics is at the control panel
- all control wiring and interface is at the control panel
- HF capacitance technology does not require routine cleaning
- touch screen interface for easy set-up and user interface
- · sump view display for ease of reading
- · trend display of hour, day or month increments
- single point calibration
- relays for valve control, alarms and pump run-time

Optional Interfaces

Analog Output 4-20 mA non-isolated Communication RS-485 Modbus

Technical Specifications - Control Panel

Operating Temp. 0°C to +55°C

.007% (.07 pF at 1,000 pF) Resolution .04% of full scale pF Accuracy

Power Input 24 vdc or 80-240 vac +/-10%, 1P, 50-60 HZ touch screen full colour sump view graphics, Display

% and engineering units of oil selectable trend line view or none

Relay Outputs four SPDT, 10 amp @ 240 vac, dry Pump relay

has a discrete run time with level re-set Type 4 metal painted blue / IP 66

Enclosure optional Type 4X SS or polycarbonate

Approvals to UL / CSA / CE IEC 61010

Technical Specifications - Float Sensor

Style #A00083 0 to 25 mm (0-2") oil thickness range Style #A00525 0 to 300mm (0-12") oil thickness range

Process Temp. 0°C to +55°C Ambient Temp. -60°C to +55°C

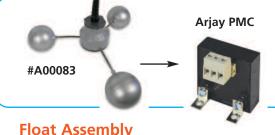
Intrinsic Safety Approved Intrinsically Safe when ordered with

Approved Barrier in Control Unit

CAN/CSA E60079-11: Class I, Groups A,B,C,D; Class II, Groups E,F,G; Class III, Encl.Type 4

CRN ABSA-CRN #OF07450.2 Wetted Parts 304SS, PVC and Teflon

Optional probe materials are eligible for NACE MR-0175 Compliance



Float Assembly

The Arjay PMC (pulse module circuit) installed near the float sensor converts the oil/water signals to a frequency pulse. This allows the controller to be safely mounted up to 1 km away from the sensor with virtually no loss to signal stability. No operator interface is required at the sensor using this unique Arjay PMC design.



App **Board**



Control Unit Interface

HMI/PLC

Control Panel

All calibration, control interface and power wiring is done at the main control unit. The touch screen provides a simple menu-driven operator interface and display.

The Arjay App board is the heart of the 4100-HCF. This board monitors and controls the signals from the separator probe, applies the appropriate calibration algorithms and interfaces this information to the touch screen and PLC hardware.





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