

2114-OWM

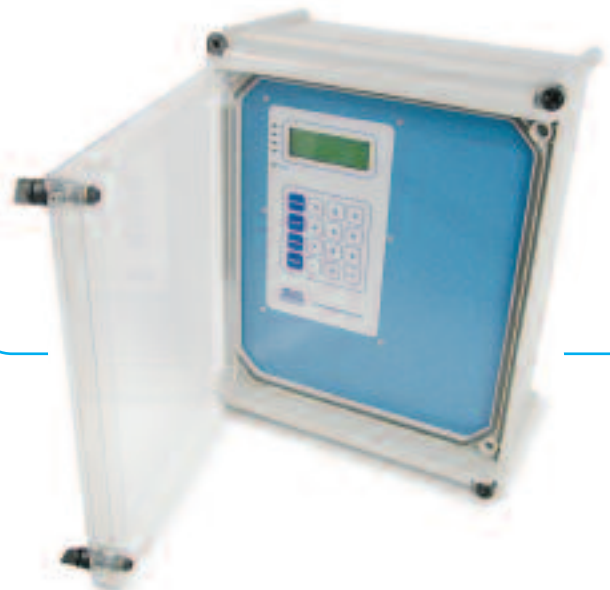
# % Oil/Water Monitor



Continuous monitoring for % concentration of oil/water emulsions and other liquid mixtures

Over 30 years of Arjay's field proven HF capacitance technology has been applied to the 2114-OWM concentration and % interface monitors. The sensing probe continuously monitors the fluid dielectric as the liquid phase changes. This can be calibrated to a % indication for trending and blending applications.

- capacitance technology does not foul or require cleaning
- no moving parts
- remote monitor mounts safely away from tank or pipe
- multi-point calibration curve



**ARJAY**

# 2114-OWM

The 2114-OWM sensing probe monitors the dielectric change of liquids to provide a % concentration of emulsions and interface changes. This is based on two liquids of different dielectric strengths such as oil and water. The resulting overall capacitance change is not strictly linear throughout the 100% range and multiple calibration points can be entered to accommodate this.

The % range available is dependent on the fluid types and application. Not all liquids can be monitored in the full 100% range. This instrument is ideal for general monitoring of application conditions and not for precision blending or concentration reporting.

## ■ Features and Benefits

- no moving parts
- remote electronics via standard twisted pair
- available with Intrinsic Safety Barrier
- 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

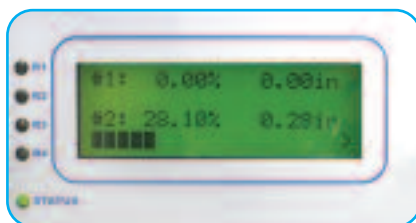
Operating Temperature	0°C to 50°C
Power Input	24 vdc or 110 vac or 220 vac
Analog Output	4-20 mA
Interface	RS-485 Modbus available
Display	backlit display of % or blank
Alarm Relays	4 x 10 amp, SPDT, dry
Standards	UL, CSA, CE
Enclosure	Type 4X, IP65

## ■ Technical Specifications - Probe

Process Temperature	-60°C to 260°C
Ambient Temperature (probe head)	-20°C to 50°C
Approval	CSA Class 1, Zone 1 and 2, Div 1 and 2, Groups A,B,C,D (also available with an Intrinsic Barrier option), ABSA-CRN #OF07450.2



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 separator.



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, exclusive to Arjay, immediately converts the sensor signal to a frequency pulse for furtherance to the controller.



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