

Continuous interface monitoring of static level oil/water separators



4100-**OWS**

Features and Benefits

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

Optional Interfaces

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

Technical Specifications - Control Panel

Operating Temp. 0°C to +55°C Resolution .04 pF at 1,000 pF Accuracy 0.2% of full scale pF

24 vdc or 80-240 vac +/-10%, 1P, 50-60 HZ **Power Input**

touch screen full colour Display tank view graphics,

% and engineering units of oil

trend line selectable hours, days or none 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 optional Type 4X SS or polycarbonate

Technical Specifications - Probe

Process Temp. -60°C to +200°C Ambient Temp. -40°C to +55°C

Relay Output

Enclosure

Pressure 103 bar/10342 kPA/1500psi

at stable temperature

available 2" npt threaded Process Connection

or flanged

Wetted Parts 316SS and Teflon

Certifications (certificates available on website)

Included Standard on Control Unit and Probe - Ordinary Location Use UL/CSA/IEC 61010-1 CAN/CSA 22.2

Included Standard on Probe - Hazardous Location Use - Explosion Proof USA/Canada CSA Zone 1,2; AEx db IIC T5 Gb IECEx/ATEX Zone 1,2; Ex db IIC T5 Gb

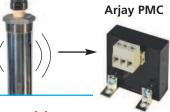
Optional on Probe - Hazardous Location Use - Intrinsically

Safe UL/CSA/IEC 60079 ANSI/UL 913-2013

Class I; Division 1,2; Groups A,B,C,D; T4 Class II; Division 1,2; Groups E,F,G Class III; Division 1,2 Class 1, Zone 0,1,2; Ex ia IIC T4 Ga

Included Standard on Probe CRN # 0F07450.2 (all provinces)
NACE MR-0175 Compliant where applicable







App **Board**



Control Unit Interface

Probe Assembly

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

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-OWS. 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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