

2852-OWI / 2851-OWI Oil/Water Interface Monitor



Reliable monitoring of oil/water interface and emulsions

Over 40 years of capacitance experience stands behind the 2852-OWI monitor. The sensing probe continuously monitors the capacitance of the inserted probe. As the interface or emulsion layer (rag layer) crosses over the probe, a proportional 4-20 mA output is provided. Typical applications include oil water separators, oil/water knock-out tanks, treater trains and decanting tanks.

- capacitance technology does not foul or require cleaning
- no moving parts
- remote monitor mounts safely away from the process

The 2852-OWI sensing probe monitors the capacitance field around the probe. A calibration is performed against the an oil condition and a water condition. The active portion of the probe is fully submerged into the liquid and sized to your targeted range of interest. As the oil/water interface or emulsion crosses or envelopes the probe, the capacitance change is tracked and an output of 4-20 mA is provided.



explosion proof head

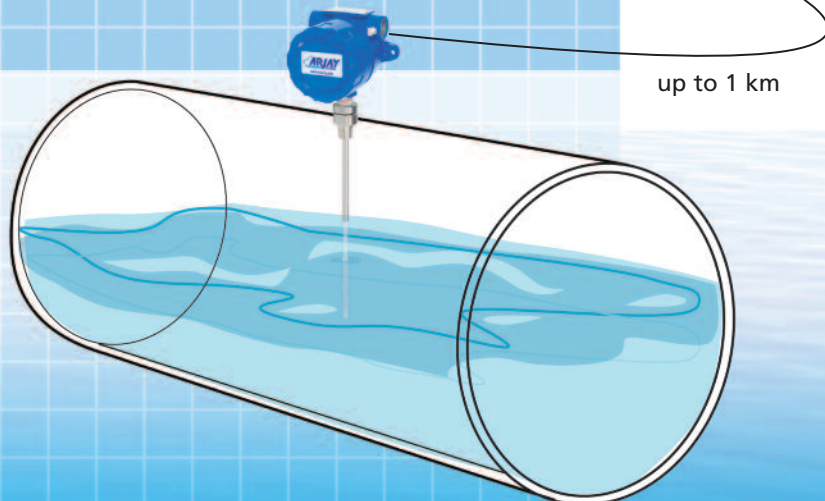


optional alarm light and/or buzzer

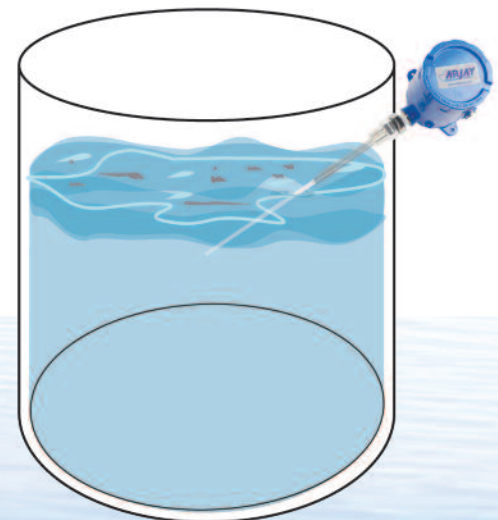
Remote Electronics available in painted steel, SS or polycarbonate enclosure

3/4" npt 316SS process connection

Inactive probe sheath (length to order)



up to 1 km



Teflon coated probe (length to order)

2852-OWI

Features and Benefits

- no moving parts
- remote electronics via standard twisted pair
- explosion proof probe is standard
- probe is available with Intrinsically Safe option for alternative HazLoc protection
- 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

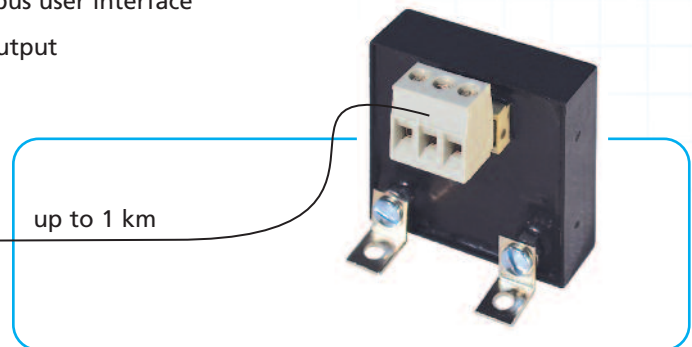
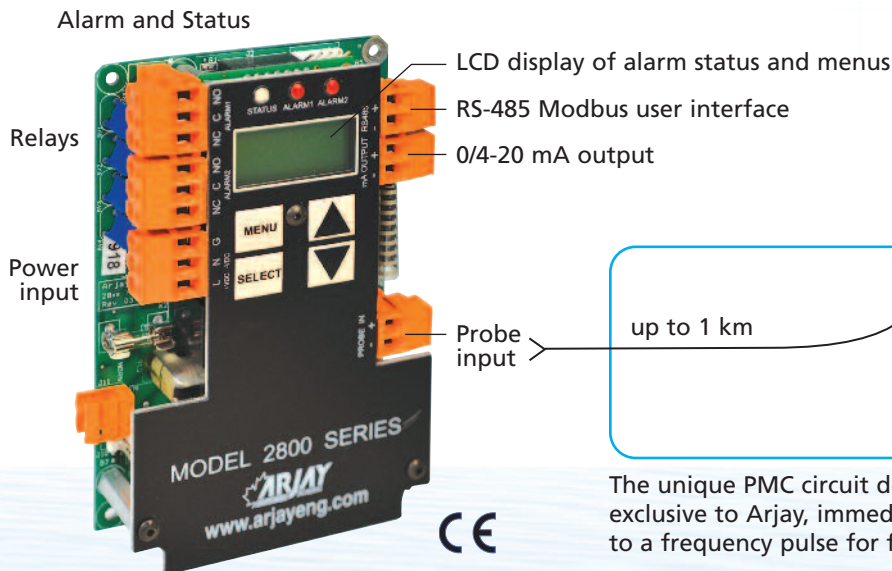
Technical Specifications - Control Unit

Operating Temp.	-20°C to +55°C
Resolution	.007% (.07 pF at 1,000 pF)
Accuracy	.04% of full scale pF
Power Input	12 vdc or 24 vdc or 100-240 vac +/- 10%
Alarm Relay	2 x 10 amp@240 vac, SPDT dry, discrete relays with differential control (2852-OWI only)
Analog Output	4-20mA proportional output, non-isolated
Communication	Modbus RS-485
Certified	UL 61010-1, 2 nd Edition CAN/CSA-22.2 61010-1-4 IEC/EN 61010-1, 2 nd Edition IEC 61326-1 CE Declared
Enclosure	Type 4/IP 66 painted steel or Type 4X/IP 66 polycarbonate or SS
Optional 2851-OWI	Light, buzzer, beacon (2852-LT only) as above: no relays, isolated 4-20mA

Technical Specifications - Probe

Probe	-60°C to +260°C
PMC	-60°C to +55°C
Approval	CSA Div 1, Class 1, Groups C,D ABSA-CRN #0F07450.2
Intrinsic Safety	CSA Intrinsically Safe when ordered with Approved Barrier in Control Unit Div 1, Class I, Groups A,B,C,D; Class II, Groups E,F,G; Class III, Encl.Type 4
Wetted Parts	316SS and Teflon

Sensor materials are eligible for NACE MR-0175 Compliance



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



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