

2880-OWI / 2881-OWI / 2882-OWI Oil/Water Interface Transmitter

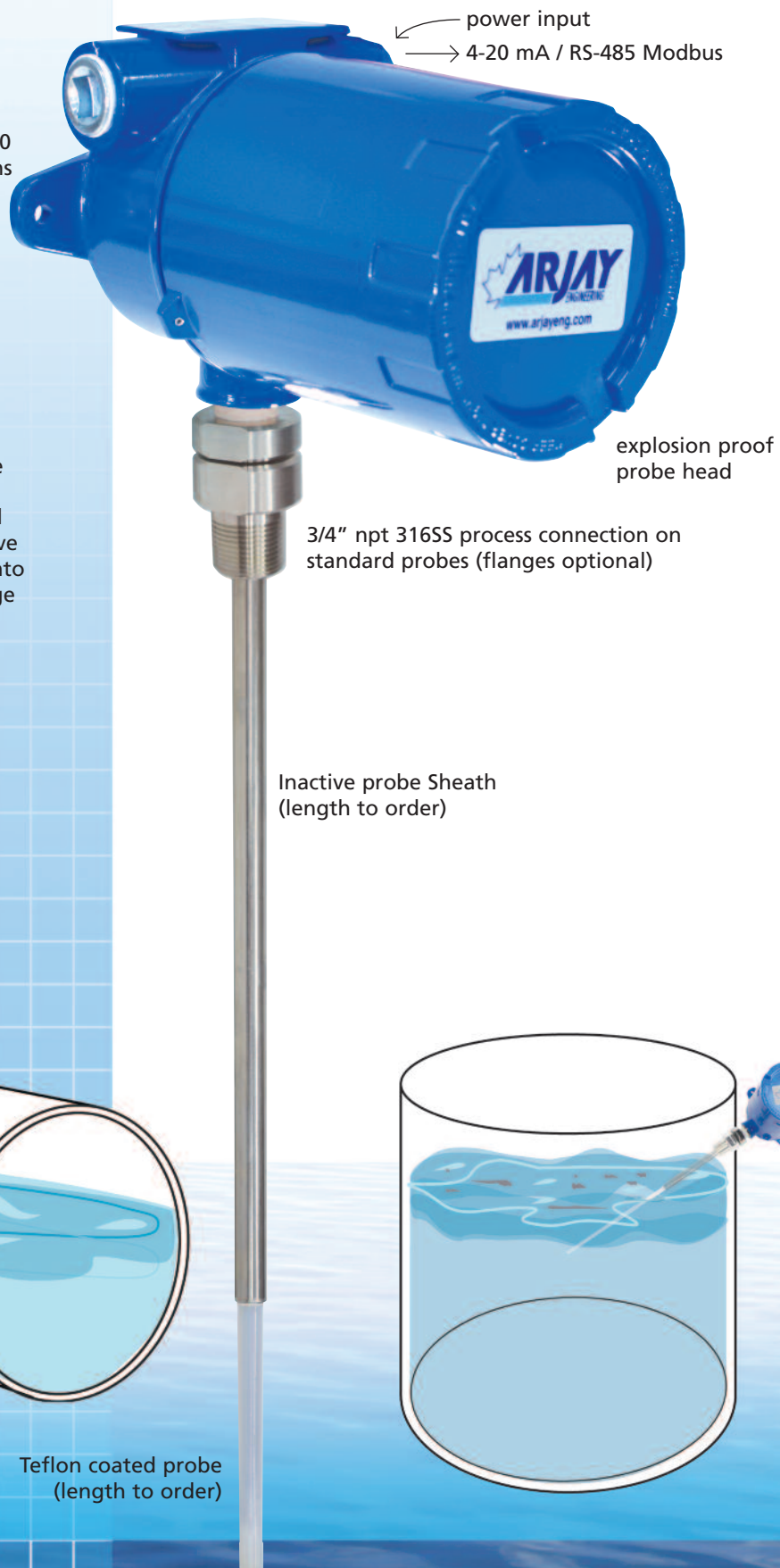


Reliable monitoring of oil/water interface and emulsions

Over 40 years of capacitance experience stands behind the 2880-OWI transmitter. 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 2880-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.



3/4" npt 316SS process connection on standard probes (flanges optional)

Inactive probe Sheath
(length to order)

Teflon coated probe
(length to order)

2880-OWI

Features and Benefits

- no moving parts
- electronics is integral to the probe
- 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 - Electronics

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, 0.1 amp max. 100-240 vac +/- 10%
Communication	RS-485 Modbus

Control Interface

2880-OWI	0/4-20 mA non-isolated output
2881-OWI	0/4-20 mA isolated output
2882-OWI	0/4-20 mA non-isolated output and 2 x 10amp@240 vac, SPDT, dry relays

Optional Viewing window of % Level LCD

Technical Specifications - Probe

Process Temp.	-60°C to +260°C (Teflon probe)
Pressure	103 bar/10342 kPa/1500psi at stable temperature
CRN	ABSA-CRN #OF07450.2
Wetted Parts	316SS and Teflon

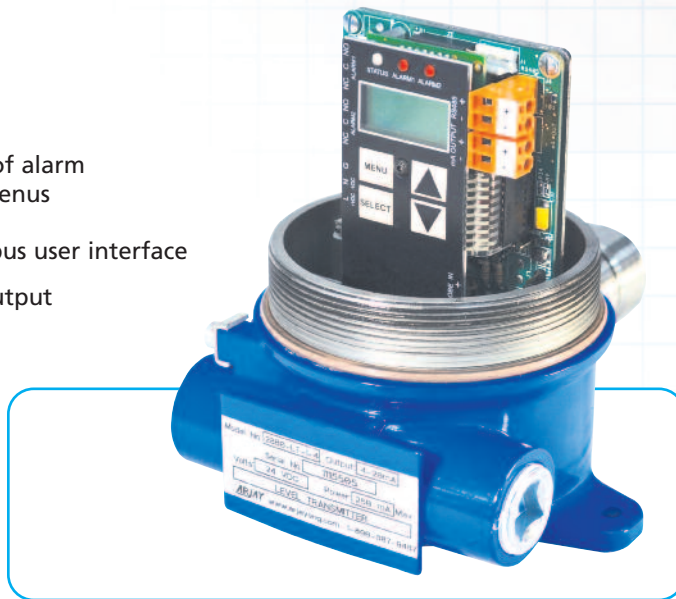
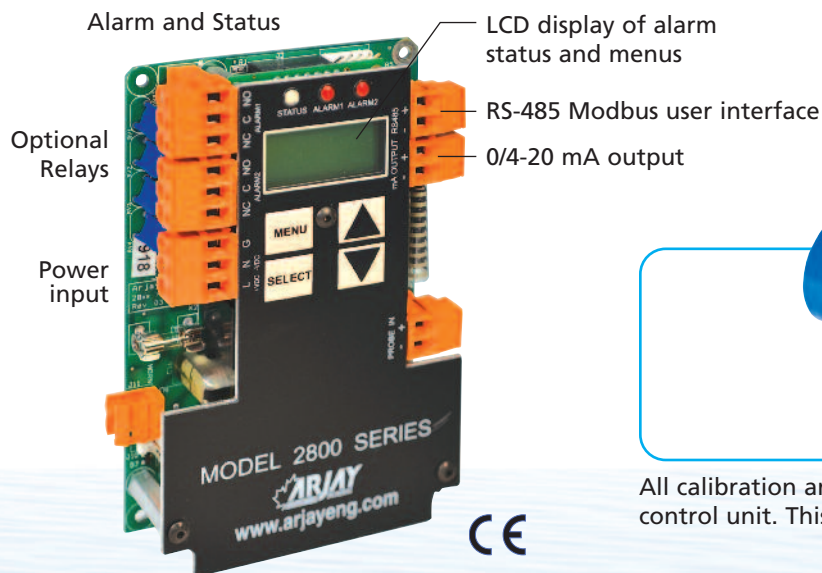
Probe materials are eligible for NACE MR-0175 Compliance

Hazardous Location Use

Available Component Certifications may be suitable to your application. Consult Arjay for assistance.

2880 Electrical Safety	UL, CSA, or IEC 61010
Housing	UL / FM / CSA Class 1, Group B,C,D; Class II, Group E,F,G
Probe	CSA Class 1, Group C,D

The electronics for this model can also be mounted remote from the probe. Refer to the Model 2852-OWI. The probe becomes Intrinsically Safe when ordered with an IS Barrier installed in 2852-OWI control panel: CSA Div 1, Class 1, Groups A,B,C,D



All calibration and power wiring is done at the main control unit. This is mounted directly onto the probe.



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