

2882-LS Probe Mounted Level Switch



Reliable level alarm and control of liquids and solids

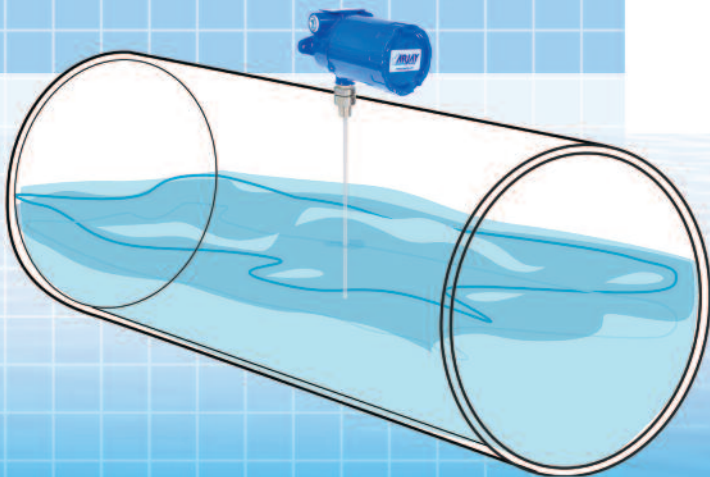
Over 40 years of capacitance experience stands behind the 2882-LS Level Switch. As a liquid or solid rises or lowers around the probe, the capacitance field changes. This is monitored and used to control the two onboard relays.

- no moving parts
- electronics are integral to probe
- high corrosion resistant Teflon and 316SS parts
- HF capacitance does not require routine cleaning
- easy calibration and control set-up

Each relay includes full differential control to allow the relay to activate and de-activate between two distinct at user determined points on the probe. This can be used for pump and valve control between high and low level points. Adjustable time delay is standard to suppress spurious alarms from turbulence.



Teflon coated probe
(length to order)



2882-LS

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 product 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 | 2 x 10amp@240 vac, SPDT, dry relays plus 4mA Normal / 20 mA alarm output |

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 |

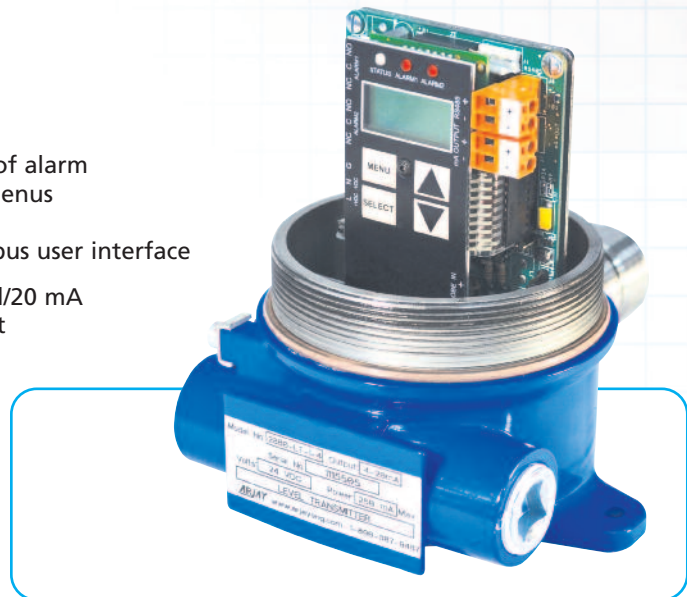
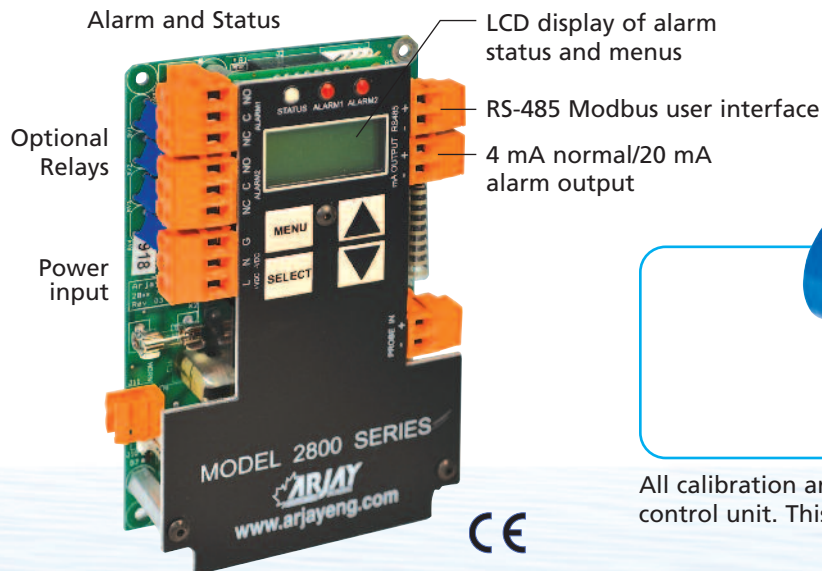
Probe materials are eligible for NACE MR-0175 Compliance

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-LS. The probe becomes Intrinsically Safe when ordered with an IS Barrier installed in 2852-LS 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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