

2880-LT / 2881-LT / 2882-LT Probe Mounted Level Transmitter



Reliable monitoring of liquids and solids for a continuous level output

Over 40 years of capacitance experience stands behind the 2880-LT level transmitter. The probe continuously monitors product levels to provide a proportional level signal for pumps, alarms or control system interface.

- capacitance technology does not foul or require cleaning
- no moving parts
- electronics is close coupled to probe
- simple keypad calibration with display
- diagnostics and level display

The 2880-LT sensing probe monitors the capacitance field around the active probe. As the volume of product increases in the vessel, the probe capacitance changes. A 4-20 mA output signal is provided for interface with customer controls and systems. A quick calibration can be set using any two points along the probe length.

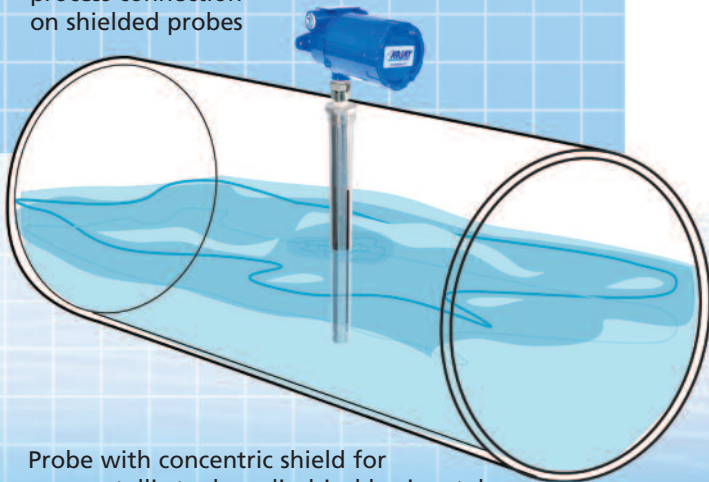


optional explosion proof probe

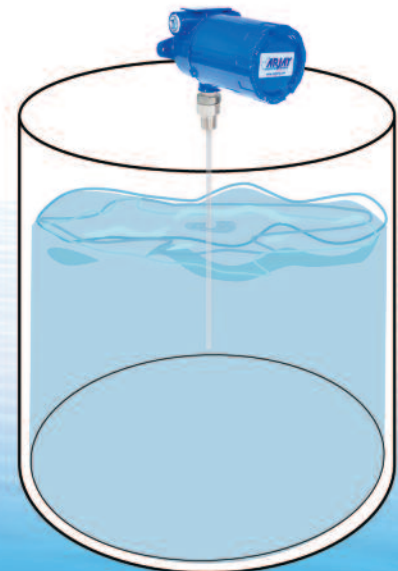
Teflon coated probe (length to order)



2" npt 316SS process connection on shielded probes



Probe with concentric shield for non-metallic tanks, cylindrical horizontal vessels, or fuel/oil applications



2880-LT

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

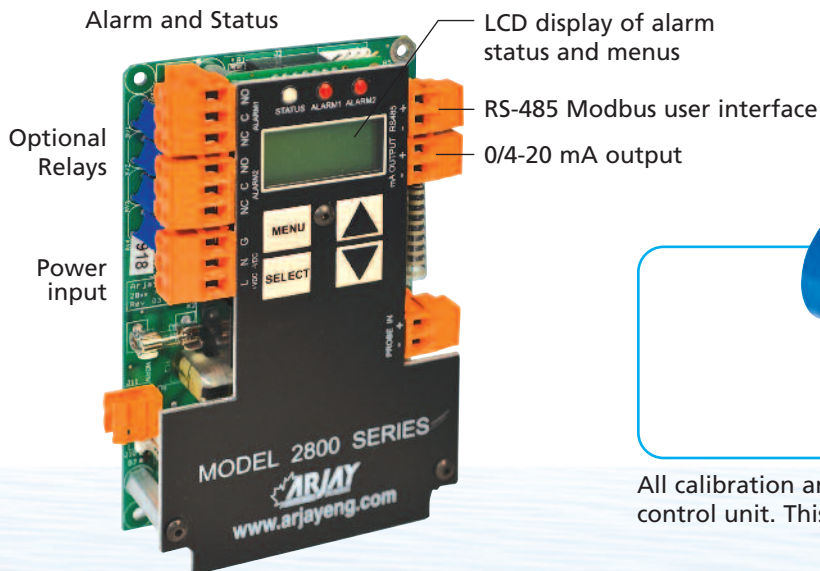
Technical Specifications - Electronics

| | |
|-----------------|---|
| Operating Temp. | -20°C to +55°C |
| Resolution | .04 pF at 1,000 pF |
| Accuracy | .02% 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-LT | 0/4-20 mA non-isolated output |
| 2881-LT | 0/4-20 mA isolated output |
| 2882-LT | 0/4-20 mA non-isolated output and two independent 3 amp SPDT dry contacts |

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 |
| Wetted Parts | 316SS and Teflon |

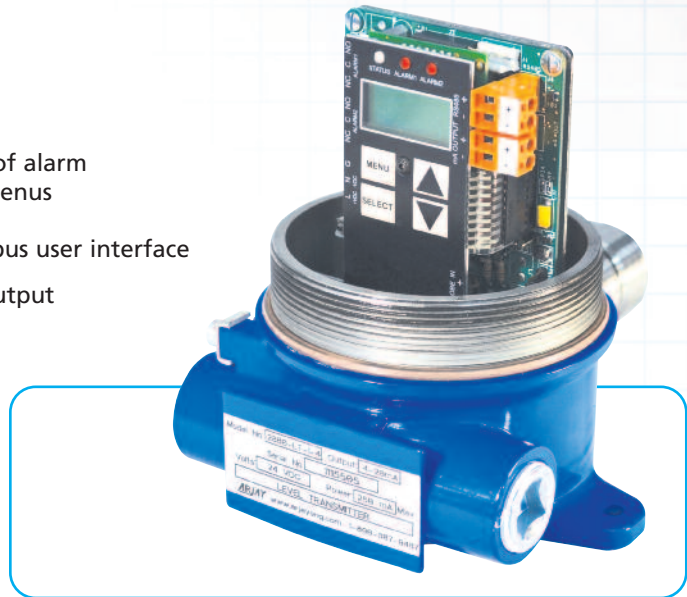
The electronics for this model can be mounted remote from the probe. For a remote controller in a Hazardous Location, see the Model 2080R-LT. For a remote controller in an Ordinary Location, see the model 2852-LT.

Certifications (certificates available on website)

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

Optional Hazardous Location Use - Explosion Proof
USA/Canada Zone 1,2; AEx db IIC T5 Gb
IECEX/ATEX Zone 1,2; Ex db IIC T5 Gb

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



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



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