

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.



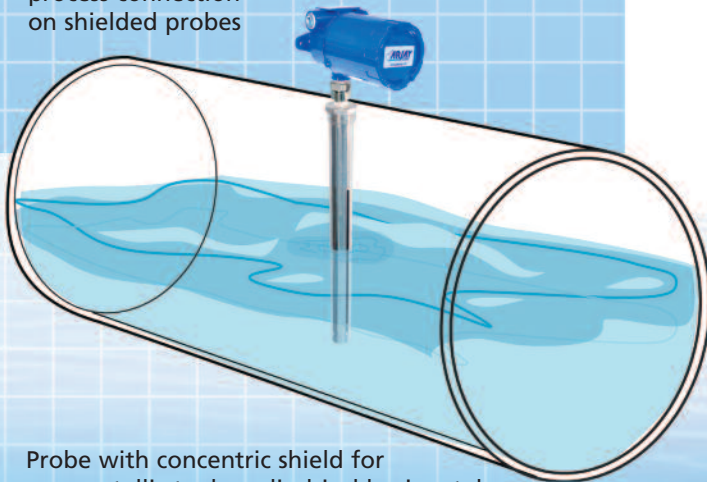
power input
4-20 mA / RS-485 Modbus

explosion proof
probe head

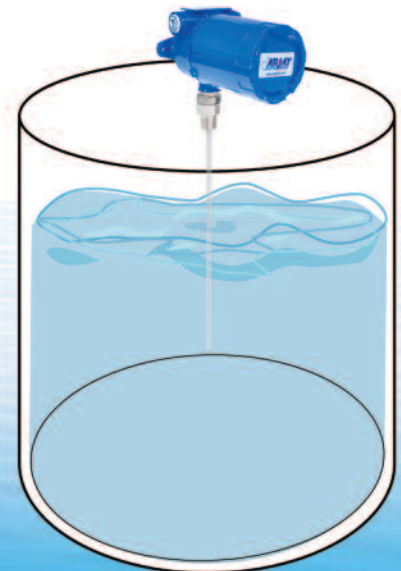
3/4" npt 316SS process connection on
standard probes (flanges optional)

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

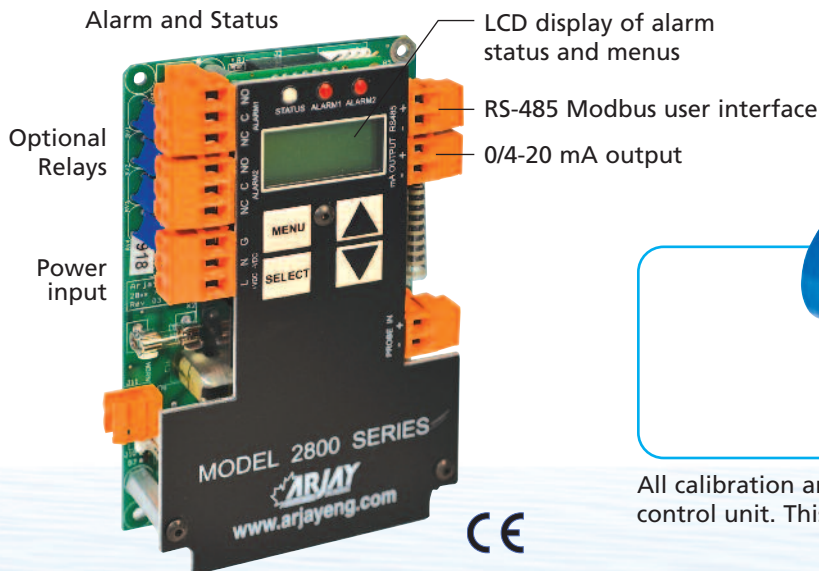
Technical Specifications - Electronics

Operating Temp.	-20°C to +55°C
Resolution	.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-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 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

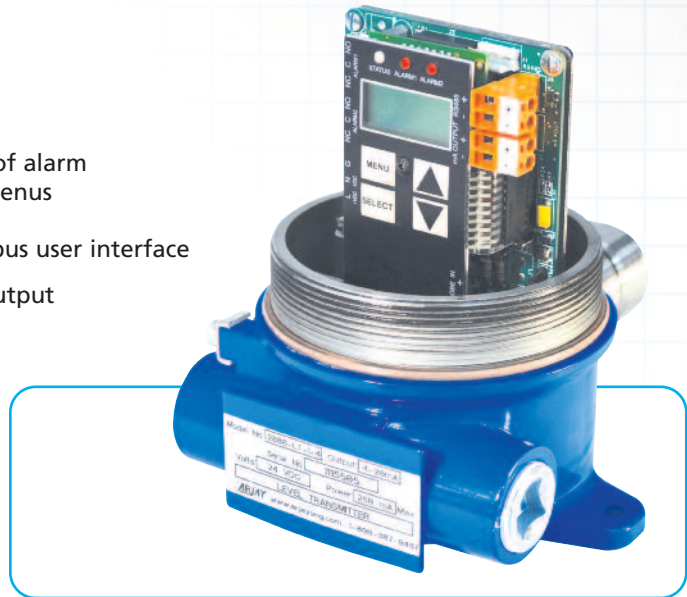
Probe materials are eligible for NACE MR-0175 Compliance

Hazardous Location Use

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

2880 Electrical Safety Housing	UL, CSA, or IEC 61010 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-LT. The probe becomes Intrinsically Safe when ordered with an IS Barrier installed in 2852-LT 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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