

2852-LT / 2851-LT Remote Mount Level Monitor



Reliable level monitoring of liquids and solids for measurement and control

Over 40 years of capacitance experience stands behind the 2852-LT level monitor. The unit continuously monitors the liquid or solids level in a tank, stand-pipe or containment. Outputs include analog, digital, and relay control for interface to alarms, valves, pumps and other process monitoring equipment.

- capacitance technology does not foul or require routine cleaning
- no moving parts
- remote monitor mounts away from the process for operator safety and ease of control wiring.

The 2852-LT sensing probe monitors the capacitance field around the probe. As the product rises in the tank or vessel the probe capacitance increases. This change is used to provide a 4-20 mA proportional output and two setpoint alarm relays.



explosion proof probe

3/4" npt 316SS process connection

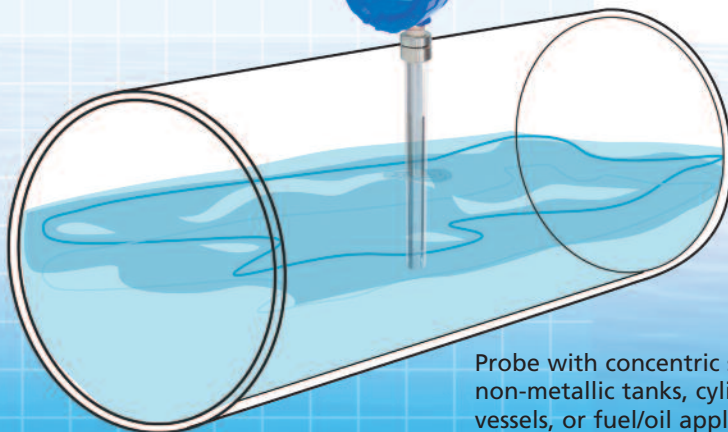
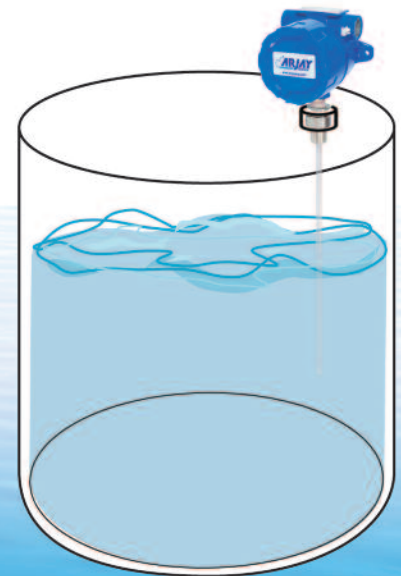
Teflon sensing probe

optional alarm light and/or buzzer

Remote Electronics available in painted steel, SS or polycarbonate enclosure



up to 1 km



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

2852-LT

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 liquid and solids types
- HF capacitance technology does not require routine cleaning
- easy calibration and control set-up

Need more than 2 relays or a visual display of the level? Look to the **Arjay 4100-LEV** Level Monitor

Technical Specifications - Control Unit

Operating Temp.	-20°C to +55°C
Resolution	.007% (.07 pF at 1,000 pF)
Accuracy	0.2% of full scale pF
Power Input	12 vdc or 24 vdc or 100-240 vac +/- 10%
Alarm Relays	Two independent 3 amp SPDT dry contacts with differential control (2852-LT only)
Analog Output	4-20mA proportional output, non-isolated
Communication	Modbus RS-485
Enclosure	Type 4/IP 66 painted steel or Type 4X/IP 66 polycarbonate or SS
Optional	Light, buzzer, beacon (2852-LT only)
2851-LT	as above: no relays, isolated 4-20mA

Technical Specifications - Probe

Probe	-60°C to +200°C
PMC	-40 C to +55
Wetted Parts	316SS and Teflon

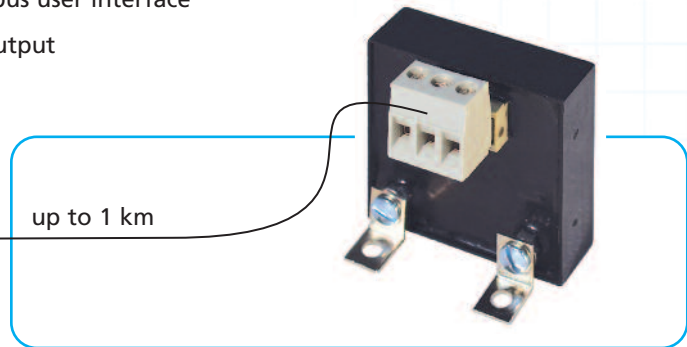
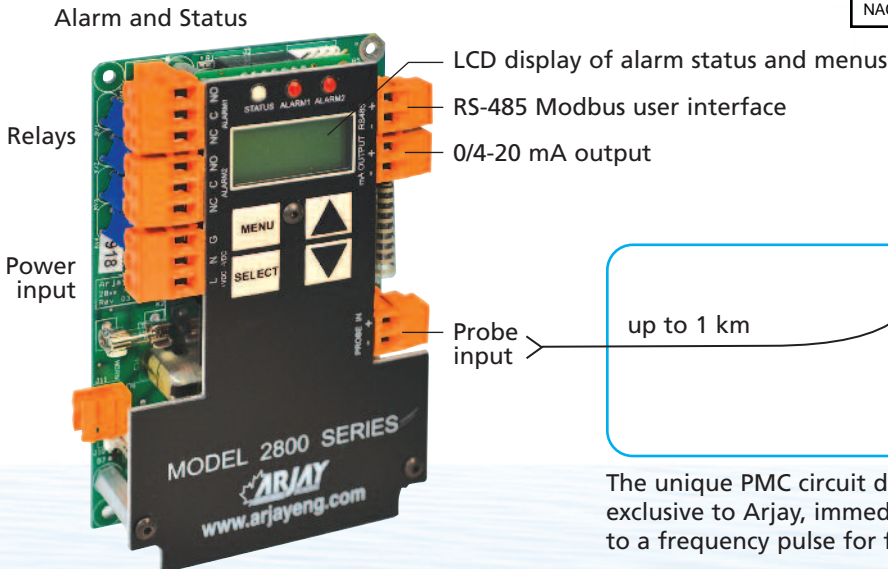
Certifications (certificates available on website)

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

Included Standard on Probe - Hazardous Location Use - Explosion Proof
USA/Canada CSA Zone 1,2; AEx db IIC T5 Gb
IECEX/ATEX Zone 1,2; Ex db IIC T5 Gb

Optional on Probe - Hazardous Location Use - Intrinsically Safe
UL/CSA/IEC 60079
ANSI/UL 913-2013
Class I; Division 1,2; Groups A,B,C,D; T4
Class II; Division 1,2; Groups E,F,G
Class III; Division 1,2
Class 1, Zone 0,1,2; Ex ia IIC T4 Ga

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



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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