

# 2852-ILA Interstitial Tank Leak Alarm



## Reliable monitoring of the interstitial space in double wall tanks

Over 40 years of capacitance experience stands behind the 2852-ILA leak alarm. The flexible cable probe continuously monitors for the accumulation of liquid in the normally dry tank wall.

- capacitance technology alarms on any liquid
- no moving parts
- remote alarm unit mounts safely away from tank site

The 2852-ILA probe monitors the interstitial space near the bottom of the tank and locks in on the capacitance field around the probe tip. Any liquid that intrudes into this space will increase the capacitive field and initiate an alarm.

The leak source can be from the stored product leaking from the tank or from groundwater leaking through the outer wall.



Optional  
Intrinsically  
Safe Sensor

flanges available to  
mate with tank  
flanges or threaded  
for customers own  
flange/union  
assembly

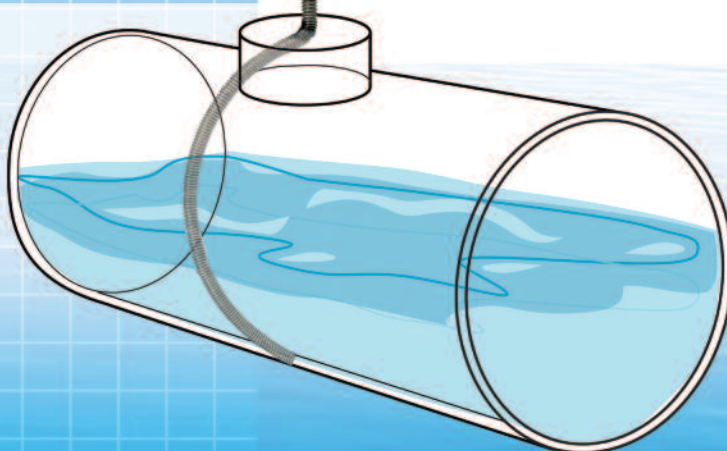
Remote Electronics available  
in painted steel, SS or  
polycarbonate enclosure

optional alarm light  
and/or buzzer

up to 1 km



The probe includes a flexible SS sheath to ignore level changes in fiberglass tanks. The alarm tip is inserted to approximately the 7 o'clock position to ignore condensation alarms.



# 2852-ILA

## Features and Benefits

- stable stationary probe wraps the tank belly
- adjustable time delay and sensitivity to eliminate nuisance alarms
- remote electronics via standard twisted pair
- available with Intrinsic Safety Barrier for Hazardous Locations
- SS and PVC wetted parts allow for corrosive environments
- capacitance technology responds to all types of liquids

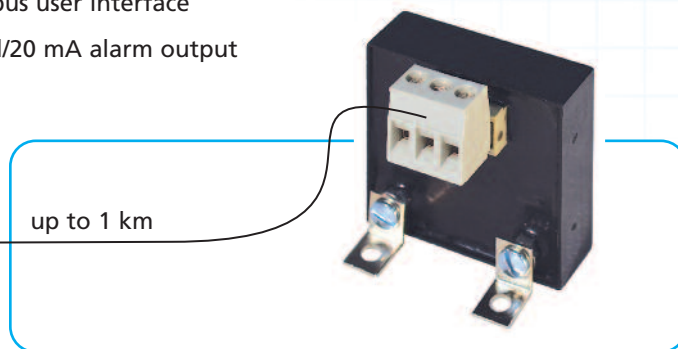
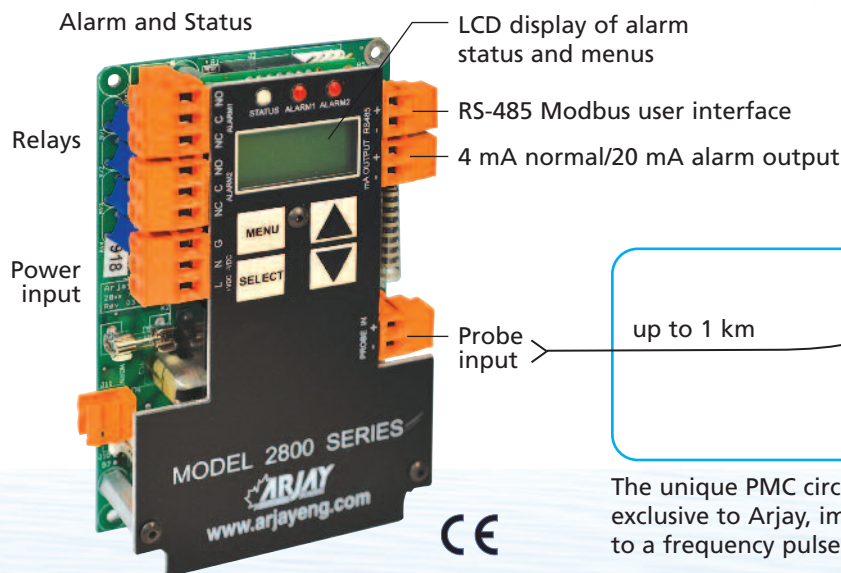
## Technical Specifications - Control Unit

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 or 100-240 vac +/- 10%
Alarm Relay	2 x 10 amp@240 vac, SPDT, dry
Analog Output	4 mA normal/20 mA alarm
Communication	Modbus RS-485
Certified	UL 61010-1, 2 <sup>nd</sup> Edition CAN/CSA-22.2 61010-1-4 IEC/EN 61010-1, 2 <sup>nd</sup> Edition IEC 61326-1 CE Declared
Enclosure	Type 4/IP 66 painted steel or Type 4X/IP 66 polycarbonate or SS
Optional	Light, buzzer, beacon

## Technical Specifications - Sensing Probe

Operating Temp.	-60°C to +55°C
Intrinsic Safety	CSA Intrinsically Safe when ordered with Approved Barrier in Control Unit Div 1, Class I, Groups A,B,C,D; Class II, Groups E,F,G; Class III, Encl.Type 4
Wetted Parts	316SS and Teflon

Probe Materials are eligible for NACE MR-0175 Compliance



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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