

# 2852T-ILA Interstitial Tank Leak Alarm



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

Over 40 years of capacitance experience stands behind the 2852T-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 2852T-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.



Explosion Proof Probe

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

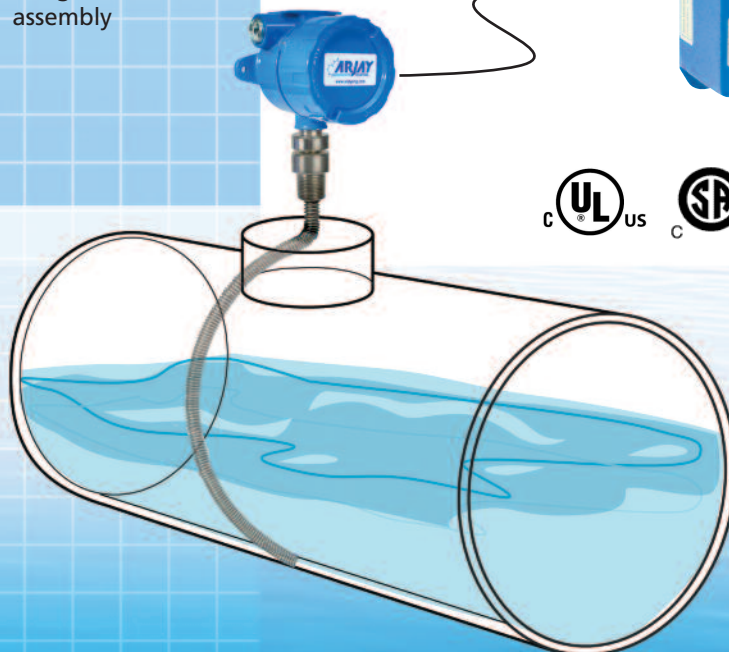
Remote Electronics available in painted steel, SS or polycarbonate enclosure

optional alarm light and/or buzzer

up to 1 km



The probe includes a flexible SS sheath to shield the sensing probe from level changes in fibreglass tanks. The alarm tip is inserted to approximately the 5 o'clock position to avoid condensation alarms.



# 2852T-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 Zone 0 Hazardous Locations
- 316SS and Tefzel 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      | .04% 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 common 3 amp SPDT dry contacts                                    |
| Analog Output   | 4 mA normal/20 mA alarm   |
| Communication   | Modbus RS-485   |
| Enclosure       | Type 4/IP 66 painted steel<br>or Type 4X/IP 66 polycarbonate or 316SS |
| Optional        | Light, buzzer, beacon   |

## Technical Specifications - Sensing Probe

|                 |  |
|-----------------|--|
| Operating Temp. | Probe in tank: -60°C to +100°C                                 |
|                 | Probe Head with PMC: -40C to +55C                              |
| Wetted Parts    | 316SS and Tefzel (flexible probes) or<br>Teflon (rigid probes) |

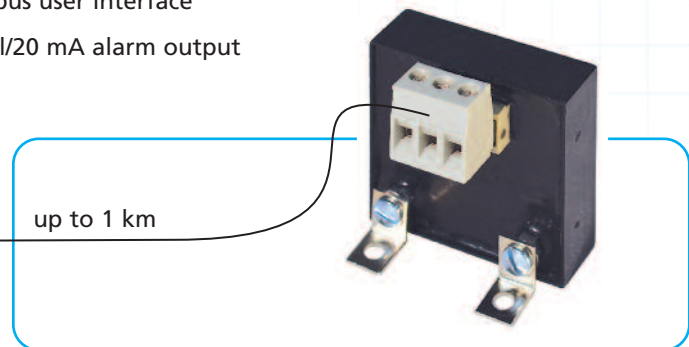
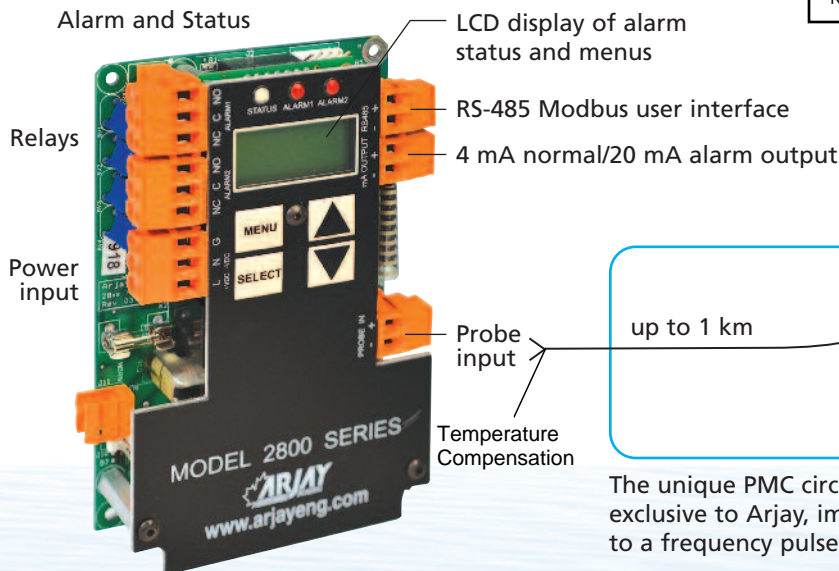
### Certifications (certificates available on website)

**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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