

2852-IFA Liquid Interface Alarm



Reliable interface monitoring for alarm between two liquids

Over 40 years of capacitance experience stands behind the 2852-IFA Liquid Interface Alarm. The sensing probe continuously monitors the liquid in a vessel and will alarm when the interface of a different dielectric liquid crosses the active probe. Typical applications include oil/water interface in pipes and separators, water accumulation in fuel tank bottoms, and product phase changes in process piping streams.

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

The 2852-IFA sensing probe monitors the capacitance field around the probe. The probe is calibrated to one of the liquids. As the interface of the second product crosses over the probe, the probe capacitance changes. This change is used to activate the relays for alarm and control.



explosion proof probe

3/4" npt 316SS process connection

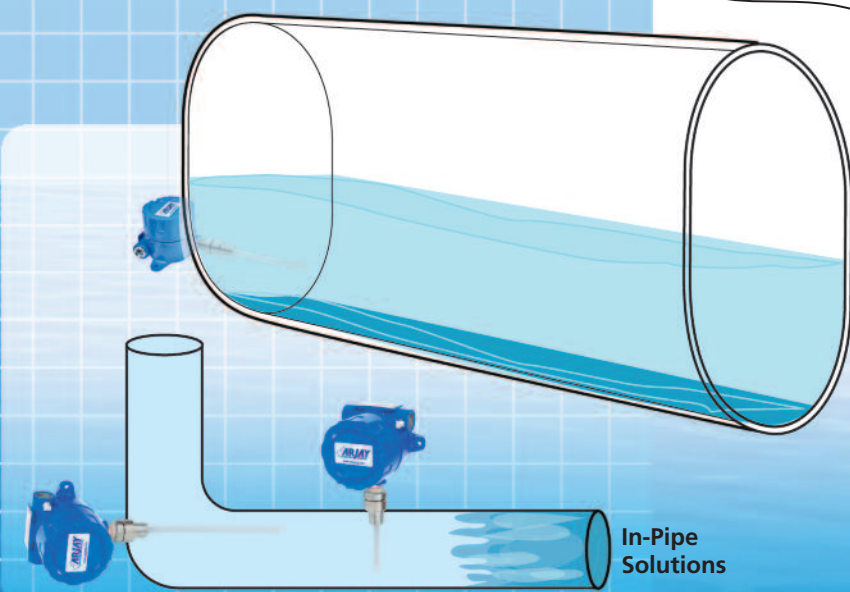
Teflon sensing probe

optional alarm light and/or buzzer

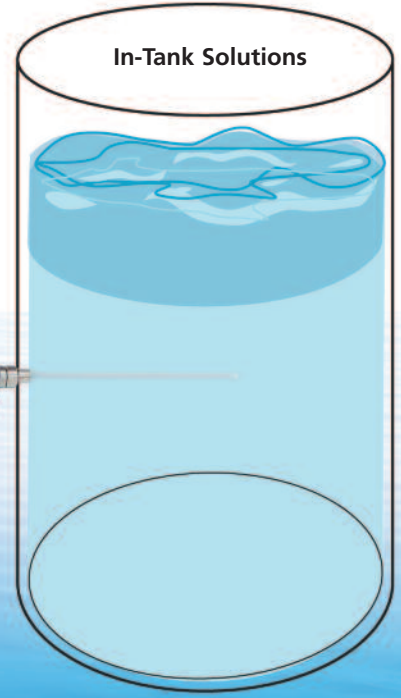
Remote Electronics available in painted steel, SS or polycarbonate enclosure



up to 1 km



In-Pipe Solutions



In-Tank Solutions

2852-IFA

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

Technical Specifications - Control Unit

Operating Temp.	-20°C to +55°C
Resolution	.04 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 Relay	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 or Type 4X/IP 66 polycarbonate or SS
Optional	Light, buzzer, beacon

Technical Specifications - Probe

Probe	-60°C to +200°C
PMC	-40 C to + 55 C

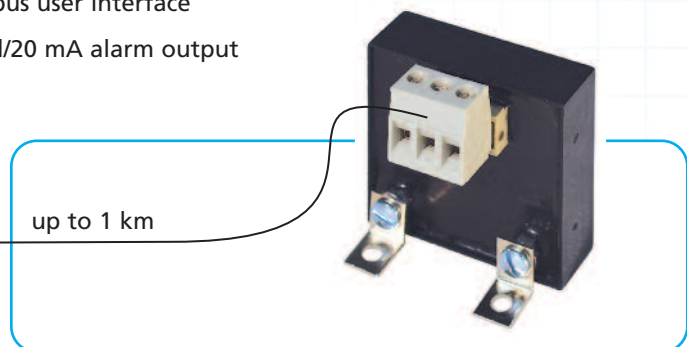
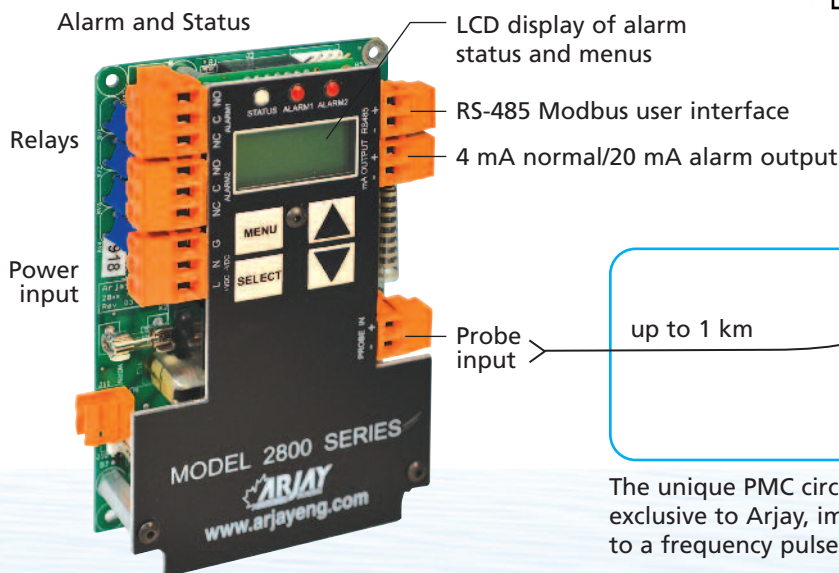
Certifications (certificates available on website)

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.



Arjay Engineering

2851 Brighton Road Oakville, Ontario Canada L6H 6C9

<http://www.arjayeng.com>

telephone: +1 905-829-2418

N. America toll free: 1-800-387-9487

fax: +1 905-829-4701