

2852-FCS Foam Control Switch



Reliable monitoring and control of foam in process applications

Over 40 years of capacitance experience stands behind the 2852-FCS Foam Control Switch. The sensing probe is tuned to the normal operating conditions of the gaseous or air phase in your process. The intrusion of foam around the probe will cause a capacitance change that is monitored by the remote controller. Two alarm setpoints with full differential are available for control and alarm functions.

Typical applications include free water knock-out (FWKO) systems, gas phase separation, pre-compressor manifold protection, and wastewater treatment facilities. The unique Arjay pulse module circuit makes this unit ideal for foam suppression, interface and control.

- no moving parts
- electronics remote from process
- high corrosion resistant Teflon and 316SS parts
- HF capacitance probe does not require routine cleaning
- easy calibration and control setup



explosion proof probe

3/4" npt 316SS
process connection

optional alarm light
and/or buzzer

Remote Electronics available
in painted steel, SS or
polycarbonate enclosure

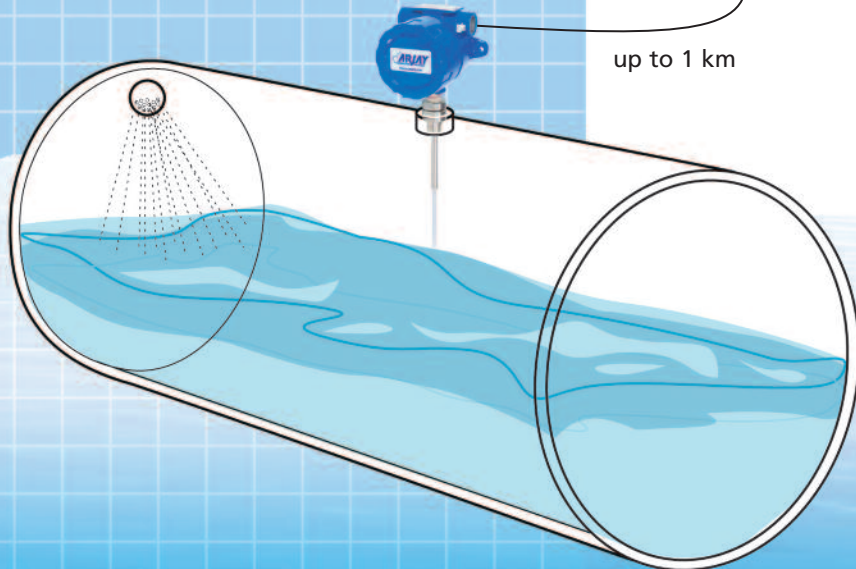


up to 1 km

Inactive sheath



Teflon sensing probe



2852-FCS

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 foam 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 independent 3 amp SPDT dry contacts with differential control
Analog output	4 mA normal/20 mA alarm, 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

Technical Specifications - Sensing Probe

Probe	-60°C to +260°C
PMC	-40°C to +55°C
Wetted Parts	316SS and Teflon

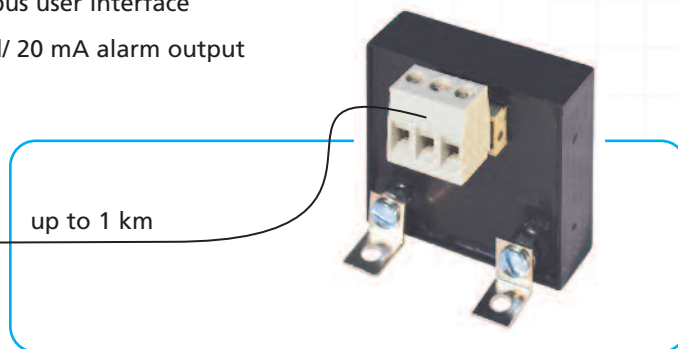
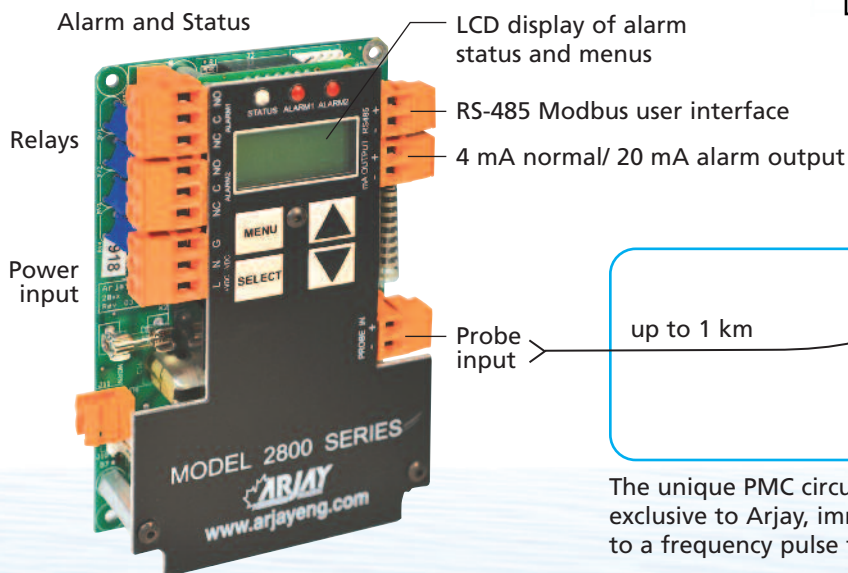
Certifications (certificates available on website)

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.