

# 2880-FCM / 2881-FCM / 2882-FCM Foam Control Monitor



## Reliable monitoring of foaming conditions in process applications

Over 40 years of capacitance experience stands behind the 2880-FCM transmitter. The sensing probe continuously monitors the capacitance of the inserted probe. As the foam intrudes into the normal air or vapour space of the probe, the capacitance changes and a proportional signal output is provided.

- no moving parts
- electronics are integral to probe
- high corrosion resistant Teflon and 316SS parts
- HF capacitance does not require routine cleaning
- easy calibration and control set-up

The unique processor and oscillation frequency combination make this unit ideal for foam suppression applications. These include oil/water knock-out and treater trains, bulk separators, coalescing chambers, pre-compressor manifolds, wastewater sumps and ponds.

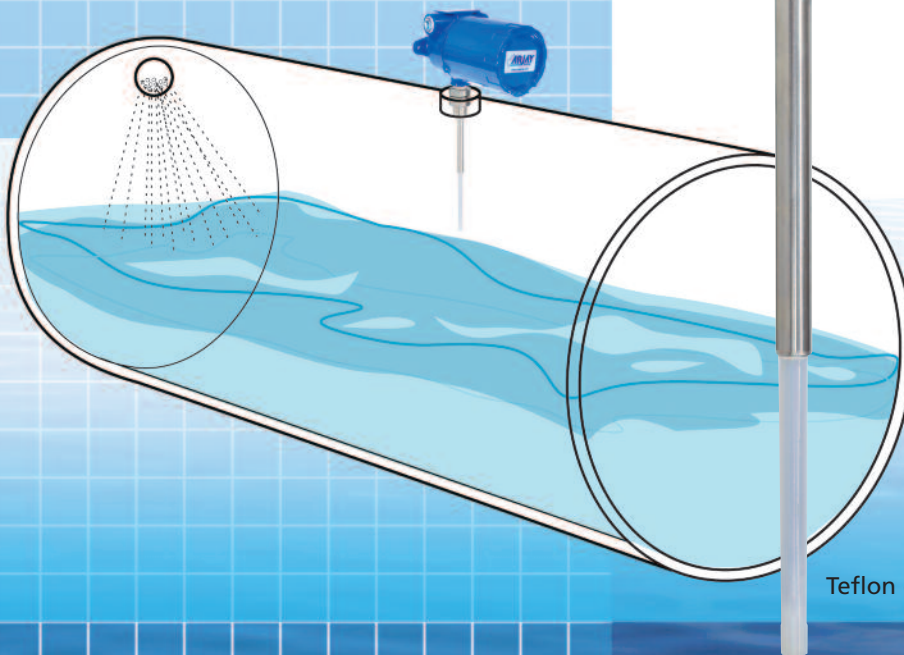


explosion proof  
probe head

3/4" npt 316SS process connection on  
standard probes (flanges optional)

Inactive probe Sheath (length to order)

Teflon coated probe (length to order)



# 2880-FCM

## Features and Benefits

- no moving parts
- electronics is integral to the probe
- high corrosion resistant Teflon and stainless steel wetted parts
- capacitance technology for high sensitivity
- HF capacitance technology does not require routine cleaning
- easy calibration and control set-up

## Technical Specifications - Electronics

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, 0.1 amp max. 100-240 vac +/- 10%
Communication	RS-485 Modbus

## Control Interface

2880-FCM	0/4-20 mA non-isolated output
2881-FCM	0/4-20 mA isolated output
2882-FCM	0/4-20 mA non-isolated output and 2 x 10amp@240 vac, SPDT, dry relays

**Optional** Viewing window of % Level LCD

## Technical Specifications - Probe

Process Temp.	-60°C to +260°C (Teflon probe)
Pressure	103 bar/10342 kPa/1500psi at stable temperature
CRN	ABSA-CRN #OF07450.2
Wetted Parts	316SS and Teflon

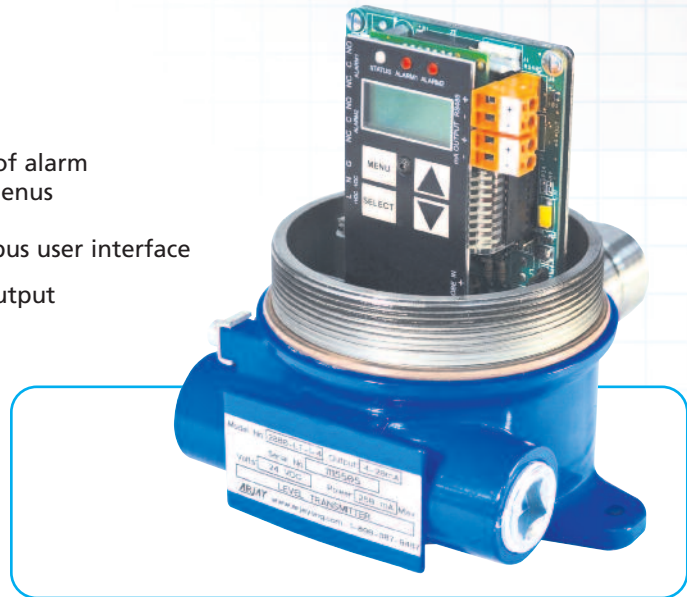
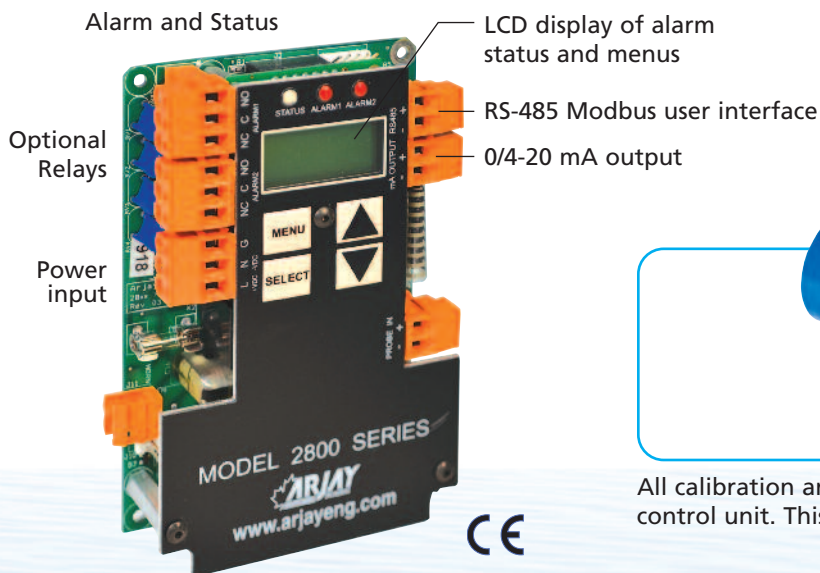
Probe materials are eligible for NACE MR-0175 Compliance

## Hazardous Location Use

Available Component Certifications may be suitable to your application. Consult Arjay for assistance.

<b>2880 Electrical Safety Housing</b>	UL, CSA, or IEC 61010 UL/FM/CSA Class 1, Group B,C,D; Class II, Group E,F,G
<b>Probe</b>	CSA Class 1, Group C,D

The electronics for this model can also be mounted remote from the probe. Refer to the Model 2852-FCM. The probe becomes Intrinsically Safe when ordered with an IS Barrier installed in 2852-FCM control panel: CSA Div 1, Class 1, Groups A,B,C,D



All calibration and power wiring is done at the main control unit. This is mounted directly onto the probe.



Arjay Engineering Ltd. 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

