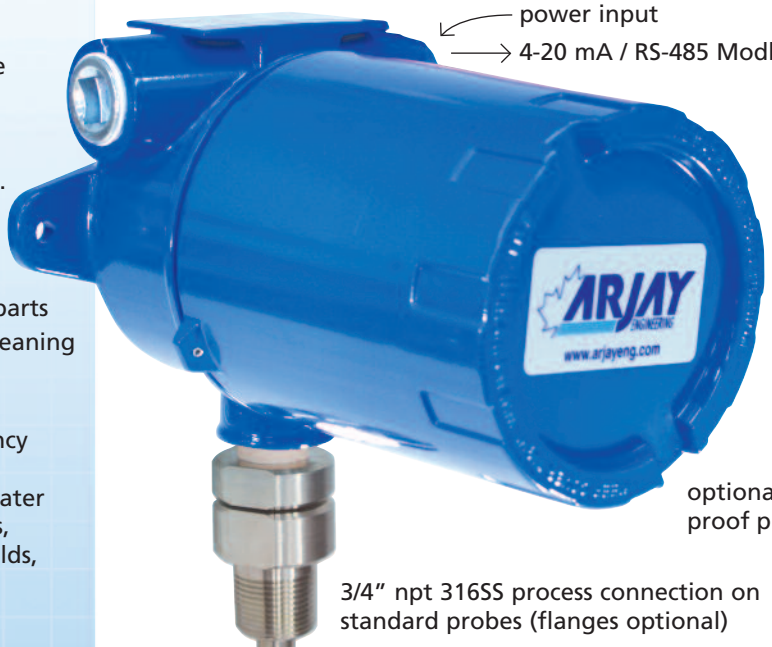
2880-FCM / 2881-FCM / 2882-FCM
Foam Control Monitor

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.

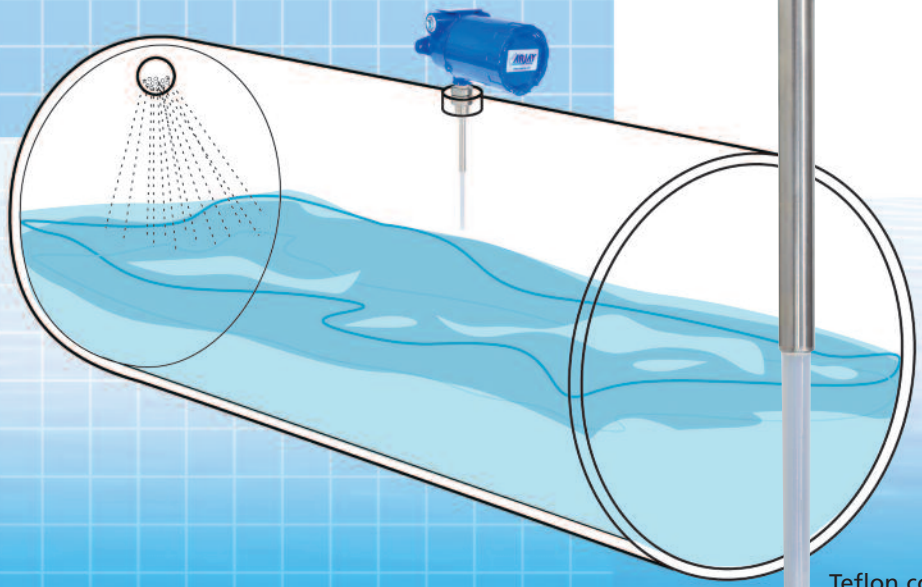
- no moving parts
- electronics are integral to probe
- high corrosion resistant Teflon and 316SS parts
- HF capacitance does not require routine cleaning
- easy calibration and control set-up

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.



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	.04 pF at 1,000 pF
Accuracy	0.2% 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 two independent 3 amp SPDT dry relay contacts

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
Wetted Parts	316SS and Teflon

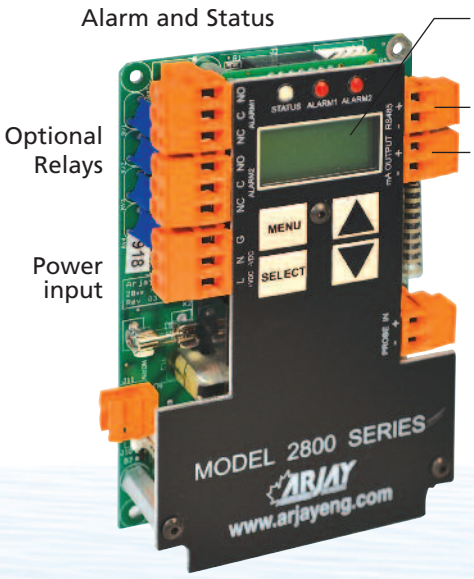
The electronics for this model can be mounted remote from the probe. For a remote controller in a Hazardous Location, see the Model 2880R-FCM. For a remote controller in an Ordinary Location, see the Model 2852-FCM.

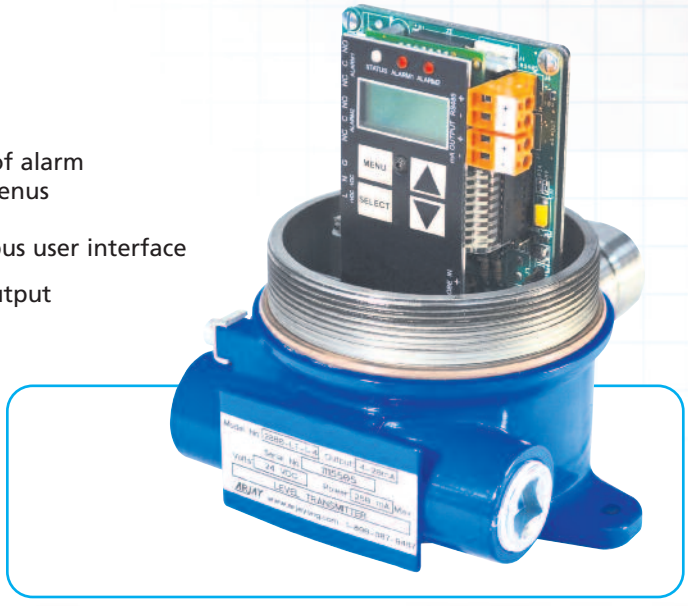
Certifications (certificates available on website)

Included Standard on Control Unit and Probe - Ordinary Location Use
UL/CSA/IEC 61010-1
CAN/CSA 22.2
CE

Optional Hazardous Location Use - Explosion Proof
USA/Canada Zone 1,2; AEx db IIC T5 Gb
IECEx/ATEX Zone 1,2; Ex db IIC T5 Gb

Also included Standard on Probe
CRN # 0F07450.2 (all provinces)
NACE MR-0175 Compliant where applicable





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

ARJAY ENGINEERING

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