

## **Sample Specification for Foam Control Monitor**

### **(Arjay 2852-FCM)**

The sensing probe shall be of a high frequency capacitance technology to monitor for a foaming condition.

A pulse card mounted at the sensor head will transmit a frequency signal to the control unit via 2-conductor shielded cable to keep all calibration, diagnostics, and control wiring safely away from the process. The control unit can be mounted up to 1 km from the probe. The sensor shall be an insertion style probe as per the drawings.

All calibration, power input and control wiring shall be at the wall mounted Type 4/IP65 control unit. Power input shall be specified as 12 vdc, 24vdc or 100-240 vac.

The control unit will provide a 4-20 mA output proportional to foam level and two independent relays. An RS-485 Modbus communication will be standard.

The controller unit shall be cCSAus and IEC CB Scheme certified for electrical safety and CE Declared. The probe shall be Ex db Class 1 Zone 1 & 2 certified to cCSAus, ATEX and IECEx. An optional Intrinsic Barrier with system certification shall be available to make the probe Intrinsically Safe Ex ia, Class 1 Div 1 & 2 and Zone 0, 1 & 2 where applicable.

The unit shall be manufactured in an ISO 9001:2015 audited facility.

The unit shall be as Arjay Engineering Ltd model 2852-FCM. [www.arjayeng.com](http://www.arjayeng.com)