

Sample Specification for Dry Pump / Phase Monitor

(Arjay 2852-DPM)

The in-line sensor shall be of a high frequency capacitance technology to monitor for a dry condition or product phase change.

A pulse card mounted at the sensor head will transmit a 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 or in-line flange style sensor 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 two independent relays. An adjustable time delay is required to avoid spurious bubble alarms. 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 insertion probe style shall be Ex db Class 1 Zone 1 & 2 certified to cCSAus, ATEX and IECEx. An optional Intrinsic Barrier and certification shall be available to make the insertion probe or flange style sensor 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 certified facility.

The unit shall be as Arjay Engineering Ltd model 2852-DPM. www.arjayeng.com