

2852-DPM Dry Pump Monitor



Pipe monitoring for dry conditions to protect pumps and equipment

Over 40 years of capacitance experience stands behind the 2852-DPM pipe monitor. The unique in-line sensor continuously monitors for the change from a wet to dry condition or a liquid change from one dielectric to another.

- capacitance technology responds to any liquid type
- no moving parts
- remote alarm unit mounts safely away from pipe
- no intrusion into stream flow

The 2852-DPM sensor monitors a cross sectional area of the pipe and locks in on the capacitance field of the fluid passing through. A change toward a dry condition or a liquid of a different dielectric will upset the capacitive field and initiate an alarm.

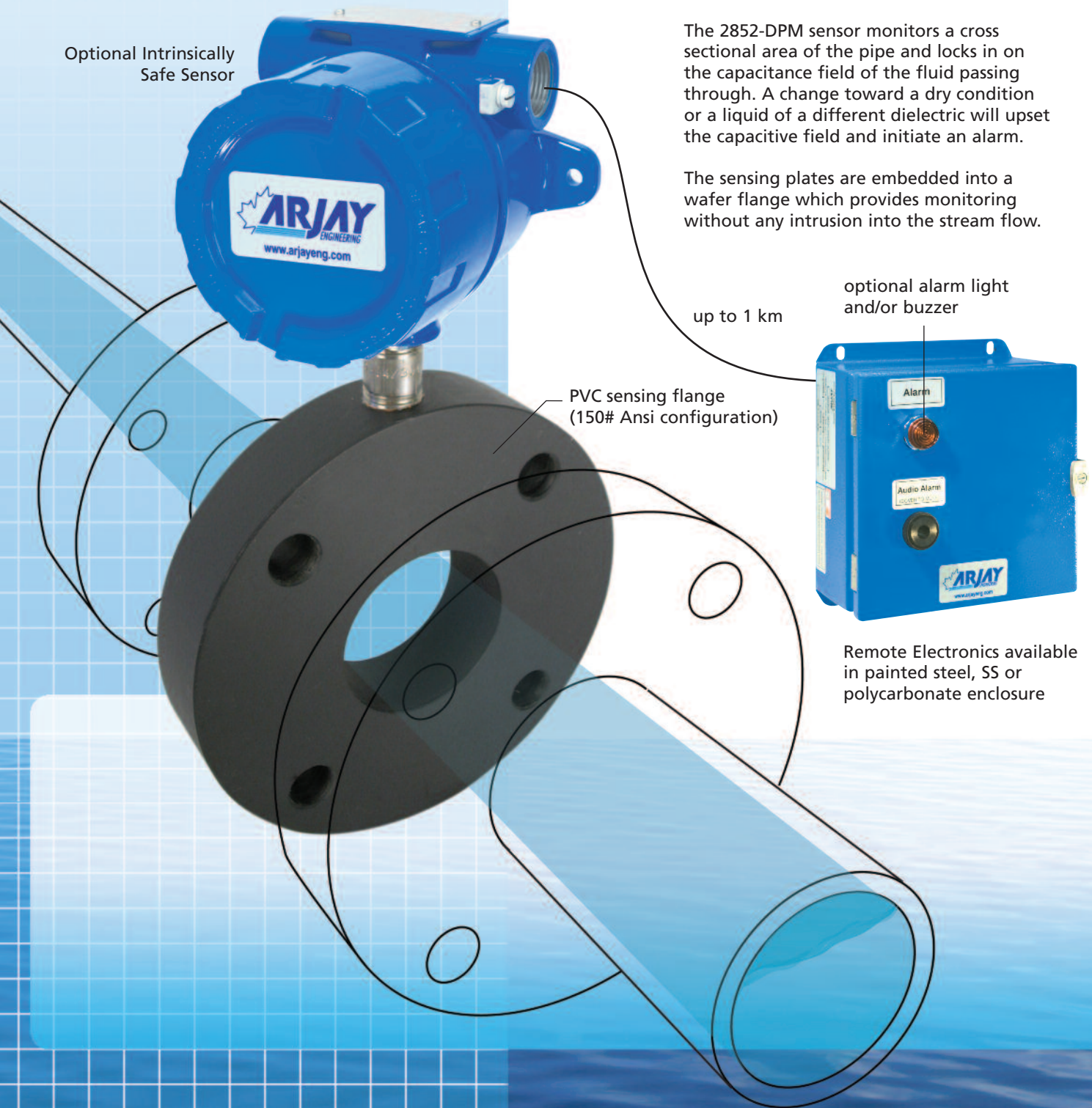
The sensing plates are embedded into a wafer flange which provides monitoring without any intrusion into the stream flow.

up to 1 km
optional alarm light
and/or buzzer

Optional Intrinsically
Safe Sensor

PVC sensing flange
(150# Ansi configuration)

Remote Electronics available
in painted steel, SS or
polycarbonate enclosure



2852-DPM

Features and Benefits

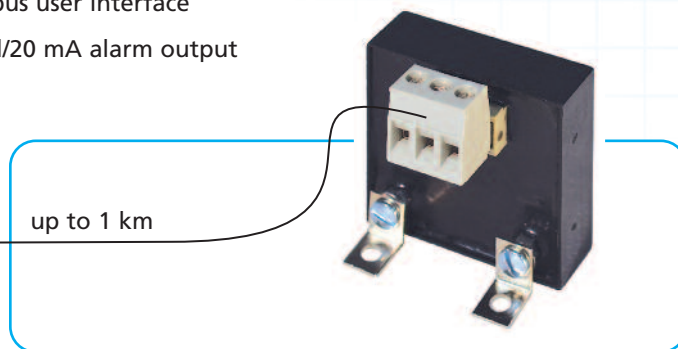
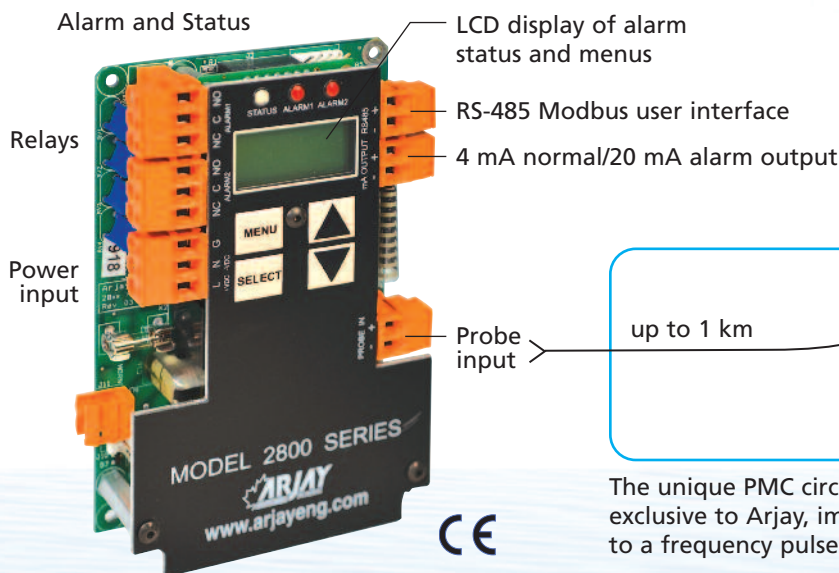
- wafer flange sensor for easy installation
- adjustable time delay and sensitivity to eliminate nuisance alarms from bubbles
- remote electronics via standard twisted pair
- Sensor available Intrinsically Safe for Hazardous Locations
- PVC wetted parts for corrosive environments
- capacitance technology responds to all types of liquids
- non-intrusive sensor design does not restrict flow

Technical Specifications - Control Unit

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 or 100-240 vac +/- 10%
Alarm Relay	2 x 10 amp@240 vac, SPDT, dry
Analog Output	4 mA normal/20 mA alarm
Communication	Modbus RS-485
Certified	UL 61010-1, 2 nd Edition CAN/CSA-22.2 61010-1-4 IEC/EN 61010-1, 2 nd Edition IEC 61326-1 CE Declared
Enclosure	Type 4/IP 66 painted steel or Type 4X/IP 66 polycarbonate or SS
Optional	Light, buzzer, beacon

Technical Specifications - Sensor

Operating Temp.	-60°C to +55°C
Intrinsic Safety	CSA Intrinsically Safe when ordered with Approved Barrier in Control Unit Div 1, Class I, Groups A,B,C,D; Class II, Groups E,F,G; Class III, Encl.Type 4
Wetted Parts	PVC (optional PVDF)



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.



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