

# High and Low Level Alarm

Reliable monitoring of liquids and solids for pump control and alarm

Over 30 years of Arjay's field proven HF capacitance technology has been applied to the 9820 and 9830 level alarms. The probe continuously monitors product levels to control pumps, operate valves, or activate alarms.

- capacitance technology does not foul or require cleaning
- no moving parts
- alarm unit mounts safely away from vessel or can be close coupled to probe



# 9820 | 9830

The 9820 and 9830 sensing probe monitors the capacitance field around the active probe. As the volume of product increases in the vessel, the probe capacitance changes. This change is used to activate the relay for a high or low alarm. A two point calibration can be set to control a differential between two points along the probe for pump or valve cycling.

## ■ Features and Benefits

- no moving parts
- remote electronics via standard twisted pair with the 9830
- available with Intrinsic Safety Barrier for Hazardous Locations on the 9830
- 9820 can be integral to the probe
- high corrosion resistant Teflon and stainless steel wetted parts
- capacitance technology responds to all product types
- HF capacitance technology does not require routine cleaning
- easy calibration and control set-up

## ■ Technical Specifications - Control Unit

Operating Temperature	-20°C to 50°C
Power Input	24 vdc or 110 vac or 220 vac (or 12 vdc on 9820)
Alarm Relay	5 amp, DPDT, dry
Standards	UL, CSA
Enclosure	9830 - Type 4X, IP65 9820 - epoxy coated cast aluminum
Optional	Lights and Buzzer

## ■ Technical Specifications - Probe

Process Temperature	-60°C to 260°C
Ambient Temperature (probe head)	-20°C to 50°C
Rating	CSA Class 1, Zone 1 and 2, Div 1 and 2, Groups A,B,C,D CSA Class 1, Zone 2, Div 2, Groups A,B,C,D (when ordered with Intrinsic Barrier Option on 9830 version) ABSA-CRN #OF07450.2
I.S. Approval	



All calibration, control relays and power wiring is available at the main control unit. This can be safely mounted up to 1 km away from the probe.



The Model 9820 version provides the electronics mounted directly to the probe for economical and compact installations.



The unique PMC circuit design, exclusive to Arjay, immediately converts the sensor signal to a frequency pulse for furtherance to the controller (9830 version).



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