

Sample Specification for Level Switch (Model 2852-CAP)

The capacitance probe shall be of a high frequency capacitance technology to monitor for the dielectric change as a liquid or solid changes in concentration, composition or characteristics.

A pulse card located at the probe will translate the probe signal to a frequency for high accuracy transmission via 2-conductor shielded cable. The control circuit can be mounted up to 1 km distance from the probe. The sensing probe shall be of Teflon and 316 SS wetted parts.

All calibration, power and control wiring shall be done at the wall mounted Type 4X/IP65 control unit. Power input shall be specified as 24vdc or 80 to 240 vac.

A time delay and sensitivity adjustment shall be standard to avoid nuisance alarms. The alarm relays shall be two SPDT, 10 amp dry contact. A fully adjustable differential shall be available to allow the relay to cycle on and off between two distinct points on the probe. A 4-20 mA output is provided that is proportional to the calibrated capacitance change. An RS-485 Modbus communication port will be standard.

The probe length is to be sized to the application. The active probe section must be submerged in the product fully and continuously. An inactive sheath is required for top mounted probes. For top mounting, determine the probe length required from the probe fitting to the probe tip to accommodate the lowest alarm point. For side mount, a minimum 10 cm (4") is to be specified.

An optional Intrinsic Barrier may be specified to make the sensor assembly Intrinsically Safe where applicable (Part. #A00071)

The controller and probe shall be the Model 2852-CAP as manufactured by Arjay Engineering Ltd., www.ArjayEng.com.