

Sample Project Specification for Level Transmitter (Model 2880)

The level probe shall be of a high frequency capacitance technology to monitor for the dielectric change between two liquids, liquid and air, or solids and air. This dielectric is converted to a proportional level signal through the onboard microprocessor.

The electronics is to be mounted integral to the probe and housed in an epoxy coated cast aluminum explosion proof enclosure. The level probe shall be of Teflon and 316SS wetted parts. For horizontal cylindrical tanks, non-metal vessels or tanks containing fuels or oils, the probe shall include a concentric shield for linear grounding and enhanced response.

All calibration, power, and control wiring shall be directly at the probe head. Power input shall be 12 vdc, 24 vdc as specified. Calibration to be done via an onboard keypad with display interface of menus for set-up and diagnostics. The display will revert to a % level reading in normal operating mode. Calibration can also be accomplished with a remote calibrator or via the RS-485 interface. The power wiring shall be independent from the analog output signal (not loop powered).

The output will be a 4-20 mA signal proportional to the calibrated 0-100% level. The signal shall be isolated or non-isolated as specified. Any two points along the length of the probe may be used to calibrate. An absolute 0% or 100% shall not be required.

The probe length and process fitting type will be as specified.

The level transmitter shall be the Model 2880 as manufactured by Arjay Engineering (www.arjayeng.com) or equal.

Electronics Model shall be 2880-___-___-___

Probe Model shall be P__-___-Z

Note: Below are typical level transmitter and probe configurations. Consult Arjay to discuss specific details or custom probes.

Electronics (typical)

Part # Arjay 2880-a-b-c

a = Analog Output: enter **STD** for non-isolated output or **ISO** for isolated output

b = Power Input: enter **1** for 110 vac, **2** for 220 vac, **3** for 12 vdc, **4** for 24 vdc

c = Housing: enter **4** for Explosion Proof with no window

Probe (typical)

Standard Probe: Part # PCA-xxx-mm-Z, where xxx = the probe length in millimeters.

-3/4" npt, 316SS process connection

Shielded Probe: Part # PKA-xxx-mm-Z, where xxx = the probe length in millimetres.

-2" npt, 316SS process connection