

## **Sample Specification for Level Transmitter**

### **(Arjay Model 2880-LT)**

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 or 80-240 vac as specified. Calibration shall 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 shall 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 controller unit shall be cCSAus and IEC CB Scheme certified for electrical safety and CE Declared. The controller and probe shall be Ex db IIC T5 Gb Class 1 Zone 1 & 2 certified to cCSAus, ATEX and IECEx as required. The unit shall be manufactured in an ISO 9001:2015 certified facility.

The unit shall be as Arjay Engineering Ltd model 2880-LT. [www.arjayeng.com](http://www.arjayeng.com)