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Customer Bid Specification for Two Wire VeriGAP™ Point Level Control

The point level control shall employ ultrasonic technology to detect the presence or absence of material between two piezo electric crystals sealed within the sensing element and require no calibration.

Sensing Element

The sensing element shall be constructed of 316SS, Hastelloy C or PFA of rugged construction and capable of operating at temperatures and pressures required by the application. Mounting shall be either NPT or flanged construction.

Electronics

The electronic unit shall be solid state ultrasonic type with circuitry to verify that all components within the control and downstream are operating properly.

Ambient temperature limits of the electronics shall be -40°F to 160°F. The system will run on 24VDC powered two wire loop, with a minimum of 13 volts available at the transmitter. The transmitter will have an output between 4 and 20mA, with a normal condition causing a 14 to 20mA current output and an alarm condition causing a 4 to 10mA current output.

The electronic unit shall be mounted in a weatherproof and explosionproof housing which meets the requirements of NEMA 1-5, 7 and 12 and either integral with the sensor or located remotely.

The point level control shall be Drexelbrook Engineering Company series 504-1200.