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Customer Bid Specification for Universal Level Gauge™

The continuous level measurement transmitter shall employ Magnetostrictive technology to produce a 4 to 20mA output proportional to the level of the material being measured. The level measuring system shall provide accuracy of 0.1%. It shall be capable of making the measurement independent of changes in density, electrical properties, and vapor space above the material being measured. The transmitter shall require one installation port and will require no calibration.

Sensing Element

The sensing element shall be constructed of 316SS or Kynar*, of rugged construction and capable of operating at temperatures and pressures required by the application. Mounting shall be either NPT or flanged construction. The float assembly shall be 316SS, capable of measuring materials up to 1500 centipoises with a minimum specific gravity of 0.65. The sensing element shall be suitable for measuring ranges up to 24 feet (7.31 meters).

Electronics

The electronic unit shall be solid-state SMT design integrated into the 5/8-inch diameter sensing tube. Ambient temperature limits of the electronics shall be -40 F to 185 F (-40 to 85 C). The system will operate on 24VDC powered two wire loop, with a minimum of 14 volts available at the electronic unit. The electronic unit will have an output between 4 and 20mA.

The level measuring system shall be intrinsically safe and suitable for installation in Division 1 hazardous areas when used with a suitable barrier.

The level measuring system will come pre-configured and calibrated from the factory and will require no additional calibration in the field.

The level measuring system shall be an AMETEK Drexelbrook Universal Level Gauge series **50M** Magnetostrictive transmitter.

* Kynar is a registered trade name of ELF ATOCHEM NA