Sample Specification for Level-Ease Flow Monitor
(Model 2114-OCF series)

The flow/level probe shall be of a high frequency capacitance technology to monitor for the dielectric change between the water and air.

The main electronics is to be an intelligent (smart) controller mounted remote from the probe using a 2-conductor shielded wire. This will be housed in a Type 4X enclosure with viewing window for the display.

All calibration, power and control wiring shall be at the control unit. Power input shall be specified as 24vdc or 120 vac or 230 vac. Calibration, diagnostics and menu selection shall be accessed by keypad entry and displayed on a four line LCD backlit display.

The output shall be an isolated 4-20 mA signal proportional to the user calibrated range. Any two points along the probe may be used for calibration. A zero or full span is not to be required. Four relays shall be available. Two relays may set to flowrates, one relay will trigger based on a level entry, and one relay will repeatedly trigger on a totalized passing volume. Each applicable relay will have time delay, high low fail-safe selection, and full differential for cycling the relays between two points.

The display will indicate flowrate and totalized flow. Totalized flow is keypad resettable.

The probe shall be installed in a separately sourced primary channel flume defined by the Manning Equation for level vs. flow. The flow controller will have a menu selection of flume sizes and types.

The sensing probe shall be of Teflon and 316 SS wetted parts with a cast aluminum , epoxy coated explosion proof junction head. The probe shall have an included 316SS concentric shield for linearization and protection.

The probe length is to be sized to the application. The probe length required shall include the flume depth (lowest water point) to at least one foot above the high water mark.

The standard probe assembly shall carry a CSA Class 1 Div 1 Approval.

The flow system shall be the Level-Ease 2114-OCF series as manufactured by Arjay Engineering, www.ArjayEng.com.