

Applied Systems AS1000 Series water softener regeneration controllers are fully programmable controllers designed for single and multiple tank water softener systems. The AS1000 controls a Series 48, 51 or 58 multi-port stager which sequences the automatic diaphragm valves in the softener manifold through the required regeneration cycles. Up to 15 programmable timed regeneration cycles are available depending on the type of system selected with cycles programmed between the set points of 000 to 999 minutes. Programming is accomplished through the incorporated front face keypad along with the accompanied digital display to provide ease of use and programming.

### **INTEGRAL WATER METER CIRCUITRY**

The AS1000 will directly accept a hall effect signal provided by an external flow meter and/or a pulsed signal provided by a pulse generator attached to a turbine meter. The controller can be set to initiate regeneration or alternation after a

preset gallonage has passed through the system and this preset value is automatically re-set on initiation or regeneration. During normal operation the controller will provide a "Gallons Remaining" readout for operator information.

### **MODELS**

#### **AS1004**

##### **Standard 4-Position Simplex Softener Controller**

Model AS1004 electronic controller together with a Series 48 4-position 6-port multi-port pilot stager is the standard simplex softener controller. One controller is required per tank but up to 3 controllers may

be used together to control parallel simplex softeners. Inter-wiring of the controllers provides full lock-out (only one softener can be in regeneration at a time).

#### **AS1005**

##### **Alternate 5-Position Simplex Softener Controller**

Model AS1005 electronic controller with a Series 51 5-position, 8 port multi-port stager can be provided to operate a simplex softener system that has an automatic brine shut-off valve installed in the incoming brine

line to isolate the flow of brine on a time basis in lieu of brine tank level. Generally used when the source of brine is from a common brine saturating storage silo.

#### **ASD1006**

##### **Standard Duplex Alternating Softener Controller**

Model ASD1006 electronic controller together with a Series 58 4-position 16-port multi-port pilot stager is the standard duplex softener controller. Only one controller is required to control duplex alternating softeners, where one unit is in service and the other is in regeneration. On

initiation of regeneration the exhausted softener is automatically taken out of service and placed in regeneration, while the standby unit is automatically placed on line in service. This provides a continuous flow of soft water to process without interruption for regeneration.