



Uses one to three valves in the system. All valves are wired identically which minimizes inventory necessary to cover all system types.

All system interlocks are handled through the controller programming. Program can be modified at any time without any valve rewiring.

There are two independently adjustable relay outputs for each unit in the system. Each relay can be used either as an output during the regeneration time window or as a chemical pump output sending a predetermined signal based on service flow.

Bright 8 digit VFD display with user panel layout utilizing LED status/programming indicators.

All volume displays are in gallons or liters. Totalizer display, flow rate and peak flow rate displays are provided for each meter in the system.

All electrical connections are made through pre-wired interlock cables supplied with the controller. All cables exit the controller enclosure via watertight connectors and sealite flexible conduit with 19 pin connectors that plug into each valve in the system. No wiring is required except for optional input/output accessories such as flow meters, sensors, solenoids, pumps, etc.

## Enclosure Rating

NEMA 4X - Watertight, dust tight, corrosion resistant, suitable for indoor or outdoor applications

## Electrical Rating

Available in 24, 120 or 240 VAC 50/60 Hz (Total system load not to exceed 15 amps)

## Temperature

Operating temperature range	32° - 120° F (0° - 49° C)
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## System Types

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|-----------------|--|
| 4 – System #4   | Single Unit/9000-8500 Time Clock, Meter or Sensor Regeneration   |
| 5 – System #5   | Individual Time Clock, Meter, or Sensor Interlocked Regeneration - 2 or 3 Units  |
| 6 – System #6   | Single Time Clock, Meter, or Sensor Series Regeneration - 2 or 3 Units   |
| 7 – System #7   | Single Time Clock, Meter, or Sensor Alternator Regeneration - 2 or 3 Units   |
| 8 – System #8   | Single Time Clock, Meter, or Sensor Delayed Alternator Regeneration with Immediate Service Transfer. (No Reserve Required)   |
| 9 – System #9   | Individual Time Clock, Meter, or Sensor Alternator Regeneration - 2 or 3 Units   |
| 10 – System #10 | (System #6 / #4) 2 Unit Single Timeclock, Meter, or Sensor Series Regeneration System / Single Unit Time Clock, Meter, or Sensor System                                      |
| 11 – System #11 | (System #7 / #4) 2 Unit Single Time Clock, Meter, or Sensor Alternator Regeneration System / Single Unit Time Clock, Meter, or Sensor System                                 |
| 12 – System #12 | (System #8 / #4) 2 Unit Single Time Clock, Meter, or Sensor Delayed Alternator Regeneration with Immediate Service Transfer / Single Unit Time Clock Meter, or Sensor System |
| 13 – System #13 | (System #9 / #4) Unit Individual Time Clock, Meter, or Sensor Alternator Regeneration System / Single Unit Time Clock, Meter, or Sensor System                               |

## System Configuration (Demand recall alternating)

The system operates two or three units as a demand recall system.

The operation is one unit put in service and all remaining units are in standby. When the flow rate increases past an adjustable set point for an adjustable amount of time, the next unit in line will go into service. If the unit is a triplex, there are two adjustable set points.

When the primary unit becomes exhausted, it goes into regeneration and the next unit in line becomes the primary unit in service.

## Regeneration Types

- 1 – Time Clock Delayed
- 2 – Meter Immediate
- 3 – Meter Delayed with Standard Reverse
- 4 – Meter Delayed with Daily Variable Reverse
- 5 – Meter Delayed with Calendar Day Variable Reverse
- 6 – Sensor Immediate
- 7 – Sensor Delayed
- 8 – Sensor Immediate with Totalizer
- 9 – Sensor Delayed with Totalizer
- 10 – Manual Initiation
- 11 – Meter Delayed without Reserve
- 12 – Sensor Delayed without Reserve
- 13 – Sensor Delayed/Totalizer without Reserve