

# Systemax



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 sealtite 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.

## System Types

<b>System Type 4</b>	Single Unit/9000-8500 Time Clock, Meter or Sensor Regeneration
<b>System Type 5</b>	Individual Time Clock, Meter, or Sensor Interlocked Regeneration - 2 or 3 Units
<b>System Type 6</b>	Single Time Clock, Meter, or Sensor Series Regeneration - 2 or 3 Units
<b>System Type 7</b>	Single Time Clock, Meter, or Sensor Alternator Regeneration - 2 or 3 Units
<b>System Type 8</b>	Single Time Clock, Meter, or Sensor Delayed Alternator Regeneration with Immediate Service Transfer (No Reserve Required)
<b>System Type 9</b>	Individual Time Clock, Meter, or Sensor Alternator Regeneration - 2 or 3 Units
<b>System Type 10</b>	(System #6 / #4) 2 Unit Single Time Clock, Meter, or Sensor Series Regeneration System / Single Unit Time Clock, Meter, or Sensor System
<b>System Type 11</b>	(System #7 / #4) 2 Unit Single Time Clock, Meter, or Sensor Alternator Regeneration System / Single Unit Time Clock, Meter, or Sensor System
<b>System Type 12</b>	(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
<b>System Type 13</b>	(System #9 / #4) 2 Unit Individual Time Clock, Meter, or Sensor Alternator Regeneration System / Single Unit Time Clock, Meter, or Sensor System
<b>Enclosure Rating</b>	NEMA 4X - Watertight, dust tight, corrosion resistant, suitable for indoor or outdoor applications
<b>Electrical Rating</b>	Available in 24,120 or 240 VAC 50/60 Hz (Total system load not to exceed 15 amps)
<b>Temperature</b>	Operating temperature range 32° - 120° F (0° - 49° C)

## 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

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