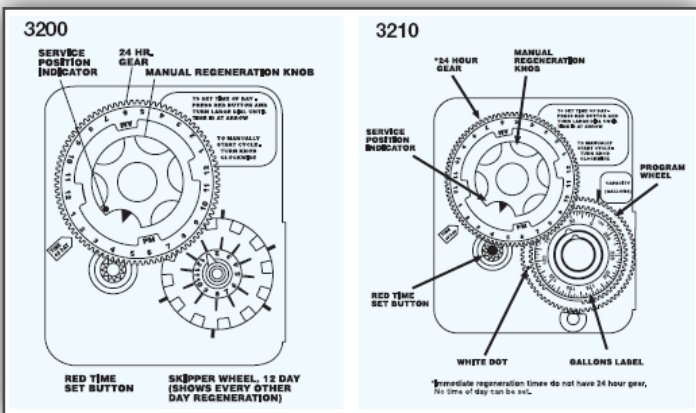


# TIMERS - ELECTROMECHANICAL MODEL 3200 & 3210 (SCG GROUP)



Fleck's electromechanical timers are simple to program and easy to service. The robust electromechanical powerhead is designed with heavy-duty 3/8" wide plastic gears and a simple mechanical design for quick access to all internal components.



## How to set days on which water conditioner is to regenerate:

Rotate the skipper wheel until the number "1" is at the red pointer. Set the days that regeneration is to occur by sliding tabs on the skipper wheel outward to expose trip fingers. Each tab is one day. Finger at red pointer is tonight. Moving clockwise from the red pointer, extend or retract fingers to obtain the desired regeneration schedule.

## Typical programming procedure

Calculate the gallon capacity of the system, subtract the necessary reserve requirement and set the appropriate gallons available opposite the small white dot on the program wheel gear. Note, drawing shows 10,000 gallons setting. The capacity (gallons) arrow denotes remaining gallons exclusive of calculated reserve.

## Immediate regeneration timers

These timers do not have a 24 hour gear. Setting the gallons on the program wheel and manual regeneration procedure are the same as previous instructions.

## System Configurations

Four different system configurations are available using either a time clock or meter to initiate a regeneration.	
System Type 4	Single Unit Operation
System Type 5	Dual Unit, Individual Meter, Interlock Regeneration
System Type 6	Dual Unit, Single Remote Meter, Series Regeneration
System Type 7	Dual Unit, Single Remote Meter, Alternating Regeneration
Regeneration Types	Time Clock Delayed, Meter Delayed, Meter Immediate
Electrical Rating	24, 120 or 240 VAC, 50/60 Hz
Operating Temperature Range	32° F - 120° F (0° C - 40° C)

## How to set the time of day (Models 3200 & 3210):

Press and hold the red button in to disengage the drive gear. Turn the large gear until the actual time of day is at the time of day pointer. Release the red button to again engage the drive gear.

## How to manually regenerate your water conditioner at any time:

Turn the manual regeneration knob clockwise. This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program. The black center knob will make one revolution in the following approximately three hours and stop in the position shown in the drawing. Even though it takes three hours for this center knob to complete one revolution, the regeneration cycle of your unit might be set only one half of this time. Conditioned water may be drawn after rinse water stops flowing from the water conditioner drain line.

## How to adjust regeneration time:

1. Disconnect the power source.
2. Locate the three screws behind the manual regeneration knob by pushing the red button in and rotating the 24 hour dial until each screw appears in the cut out portion of the manual regeneration knob.
3. Loosen each screw slightly to release the pressure on the time plate from the 24 hour gear.
4. Locate the regeneration time pointer on the inside of the 24 hour dial in the cut out.
5. Turn the time plate so the desired regeneration time aligns next to the raised arrow.
6. Push the red button in and rotate the 24 hour dial. Tighten each of the three screws.
7. Push the red button and locate the pointer one more time to ensure the desired regeneration time is correct.
8. Reset the time of day and restore power to the unit.

# 3200NXT CONTROLLER(SCG GROUP)



The 3200NXT Network Controller uses on-board communication capabilities to link multiple commercial valves (via off-the-shelf CAT3, CAT5, or better cables) for a variety of system types. The 3200NXT is configured for use with Fleck® 2750, 2850s, 2900s, 3150, and 3900 Control Valves, and also supports stager valves using butterfly or notched cams.

### Features

- 2x16 character backlit LCD display
- Networks up to four valves
- Field-configurable for System Types 4, 5, 6, 7, and 9
- Auxiliary inputs and outputs
  - Remote signal start input
  - Remote lockout input
  - Programmable relay output/chemical pump output
- Easy installation with plug-in wiring harnesses
- Front panel diagnostics button
  - Flow rate
  - Peak flow rate
  - Totalizer
  - Hours between last two regenerations
  - Hours since last regeneration
  - Adjustable volume remaining
  - Valve position
  - Software version
- Easy time of day adjustment
  - Simply push the up or down button on the lead (#1) controller; time of day is automatically copied to the remaining controllers
- Five configurable cycle steps
- Remote signal start can be used simultaneously with time clock, meter immediate, or meter delayed regeneration triggers
  - Allows monitoring of flow and volume information in RSS applications

### Three programming levels

- User mode
- Master programming
- Diagnostics mode

### System Types

System 4	Single Valve	Time Clock	No Meter
		Delayed	One Meter
		Immediate	One Meter
System 5 (Interlock)	2 - 4 Valves	Remote	
		Signal Start	Optional Meter
		Immediate	All Meters
System 6 (Series)	2 - 4 Valves	Remote	
		Signal Start	Optional Meter
		Immediate	All Meters
System 7 (Alternating)	2 Valves	Remote	
		Signal Start	Optional Meter
		Immediate	One Meter
System 9 (Alternating)	2 - 4 Valves	Remote	
		Signal Start	Optional Meter
		Immediate	All Meters

### Regenerant Flow

Downflow, Upflow Brine First, Upflow Brine Refill First

### Generic Meter Guidelines

Open collector output.  
Pulse rate generated must not exceed 100 pulses per second (100 Hz), or 6,000 pulses per minute.  
Support for meter outputs in the range of 1-255 gallons (25.5 m<sup>3</sup>) for every 1-255 pulses. Example: 35 gallons/100 pulses (= 3.5 gallons/10 pulses, = 0.35 gallons/1 pulse).  
Meter must operate at 5 VDC.

### Electrical Rating

24 VAC Pentair® Transformers:  
115 VAC +/- 20% input, 24 VAC output  
230 VAC +/- 20% input, 24 VAC output

### Humidity

95% RH, Non-Condensing