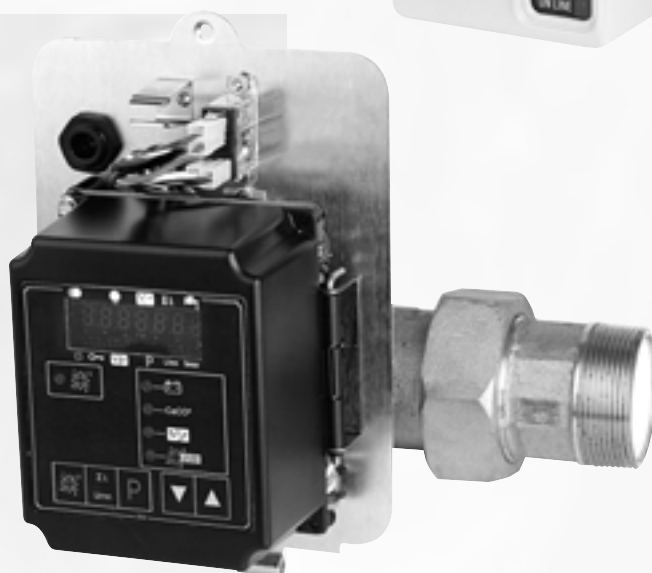




3200 ET & RM PROGRAMMING MANUAL













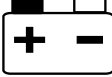
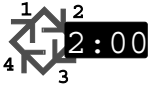
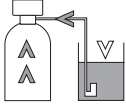
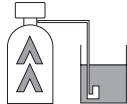
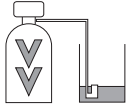
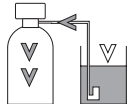
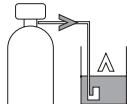


SERVICE MANUAL:

1	PROGRAMMING MANUAL	P. 2
2	VALVE OPERATION	P. 3
3	PROGRAM LEVELS	P. 6



1 - PROGRAMMING MANUAL

	Set up		Set Down
	Program access	ΣL l/mn	Display mode
	Start a regeneration		In service
	Time of day	ΣL	Totalizer display
	Flow		Regeneration
Sensor	Sensor	L/mn	Flow rate display
	Regeneration Lockout	P	Programming Mode
	Reserve		Available volume
	Total Capacity	CaCO ₃	Water Hardness
	Alkaline Battery low		Regeneration Time
	Up flow brine draw & slow rinse		Backwash
	Rapid rinse		Down Flow Brine draw & slow rinse
			Brine tank refill



2 - VALVE OPERATION

1 BUTTON FUNCTION



1.1 EXTRA CYCLE BUTTON:

Depress this button will initiate a manual regeneration.


1. With timeclock or meter delayed regeneration, an extra regeneration will occur at the set regeneration time. Depress this button for 5 seconds, a regeneration will force to occur immediately.
2. With meter immediate regeneration, an extra regeneration will occur immediately.

1.2 TOTALIZER/FLOW RATE BUTTON:

This button is only functional with meter valve.

Depressing the button once will display the flow rate (in litre/minute). Depressing the button once again will display the total accumulation of water treated by the valve since it was last reset. Depressing the button once more will return the display to time of day or volume remaining.

Depress the button for 25 seconds will reset the totalizer display and the arrow⁽¹⁾ will flash to indicate to the operator that the reset is done properly.

(1) under the pictogram 

1.3 PROGRAM BUTTON:

The installer during the valve programming uses this button.

1.4 SET BUTTON:

This button is used to set the current time of day, adjust the parameter value during the valve programming and the time remaining in a regeneration cycle.

1.5 BATTERY INDICATOR:

When the valve is operating on line power, this led will turn on whenever the 9V alkaline battery (not included) used for the memory backup needs to be replaced or is disconnected.

In case of a power outage, the battery will maintain the current operating displays for approximately 24 hours at the maximum battery capacity.




2 - VALVE OPERATION

2 SERVICE VALVE OPERATION

2.1 METER VALVE

In service the time of day alternates being viewed with the volume remaining. The water flow through the unit is indicated by the meter arrow⁽¹⁾ that flashes in a direct relationship to flow rate. The volume remaining counts down with the consumption of treated water.

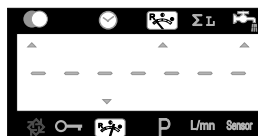
(1) under the pictogram 

2.1.A METER DELAYED REGENERATION

When the volume remaining reaches the reserve capacity (calculated by the electronic), the reserve arrow⁽²⁾ flashes as an indication. The regeneration will initiate at the pre-set regeneration time.

When the reserve capacity is exhausted, the display will show a succession of dash and the regeneration will initiate at the pre-set regeneration time.

(2) under the pictogram 



2.1.B METER IMMEDIATE REGENERATION

When the volume remaining reach zero, the regeneration starts immediately.

Note for 9000 and 9500 valves: in service, the time of day display will alternate with the tank in service display and the volume remaining display of this one.



2.2 TIMECLOCK VALVE

In service, the time of day is viewed all time. The valve operates normally until the pre-set number of days since the last regeneration reaches. Once this occurs, regeneration will start immediately at the pre-set regeneration time.

2.3 METER VALVE WITH A REGENERATION DAY OVERRIDE

When the valve has reached its set days since regeneration override value, the regeneration will initiate immediately or delayed at the pre-set regeneration time regardless of the volume remaining.

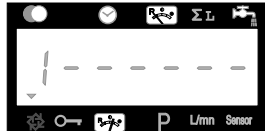


2 - VALVE OPERATION

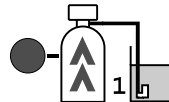
3 VALVE OPERATION DURING A REGENERATION

3.1 3200 ET TIMER

In regeneration, the valve displays what regeneration cycle has reached and the time remaining in that cycle. The time remaining is in minutes and tenth of minute. Once the cycle time reaches zero, the valve drives to the next cycle.






The valve is advancing to cycle 1, number 1 is flashing.



A diode turns on next to corresponding pictogram.



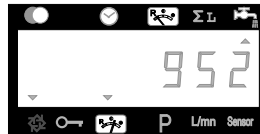
The valve is in cycle 1, 10 min is remaining in that cycle.

Depress the button  during a regeneration cycle will immediately advance the valve to the next cycle. Depress the button  or  during regeneration cycle will adjust the time remaining. The regeneration cycle programming will not be changed.

Note for 9000 and 9500 valve: during a regeneration, the regeneration cycle display will alternate with the volume remaining display of the tank in service.



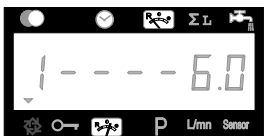
Regeneration cycle 1



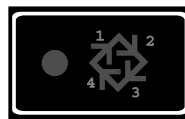
Volume remaining of the tank in service

3.2 3200 RM TIMER




When the 3200 RM timer sends out a regeneration signal, the display indicates the number 1 and the signal duration for the start of regeneration.



Regeneration signal is sent out, it lasts 6 min.



The signal is indicated by a diode

Depress the button  during the regeneration signal, the electronic returns in service. Depress the button  or  during the signal will adjust the time remaining. The regeneration signal programming will not be changed.

4 VALVE OPERATION DURING A POWER FAILURE

During a power failure all displays turn off and the regeneration cycles are delayed. The valve continues to operate normally until the line power is restored or the 9V-battery power is lost.

- If the battery backup power is never lost during the power failure, the valve continues to operate normally without the loss of data until the line power is restored.
- If the battery backup power is lost during the power failure, the valve stored the current time of day, the remaining, the regeneration cycle status and the various diagnostic displays. To indicate this type of failure, the time of day will flash to inform that this display and the volume remaining may be incorrect.



3 - PROGRAM LEVEL # 1

Note:

1. Push the **P** button once per display.
2. Option settings may be changed by pushing the **▲** and **▼** set buttons.
3. Depending on current valve programming, some displays will not be viewed or set.



The valve is in service position. To enter in the first level, push and hold the **P** button for 5 seconds.

1.1. Water Hardness in °tH ⁽¹⁾
Ex.: 30 °tH [- - - - - 30]

1.2. Water Hardness after mixing valve in °tH ⁽¹⁾
Ex.: 6 °tH [P - - - - - 6]

1.3. System capacity in m³ °tH ⁽¹⁾
Ex.: 1200 m³ °tH [- - - 1200]

1.4. Regeneration time
Ex.: 2:00 [- - 2:00 -]

Regeneration cycle time setting.

1.5. Cycle #1: Backwash for ET ⁽²⁾, signal for RM
Ex.: for ET: [1--10.0]
for RM: [1---6.0]

1.6. Cycle #2: Brine draw/slow rinse for ET ⁽²⁾
Ex.: for ET, not used for RM [2--60.0]

1.7. Cycle #3: Rapid rinse ⁽²⁾
Ex.: for ET, not used for RM [3--10.0]

1.8. Cycle #4: Brine refill ⁽²⁾
Ex.: for ET, not used for RM [4--12.0]

1.9. Cycle #5
Ex.: not used [5--0FF]

1.10. Cycles #6
Ex.: not used [6--0FF]
Note: not viewed if cycle #5 is set on OFF.

Level #1 exit.
The valve returns in normal operation.

(1) The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).

(2) Only available with down flow regeneration valves. For up flow regeneration valves, the cycles below apply to:

- Cycle #1: Brine draw & slow rinse
- Cycle #3: Rapid rinse
- Cycle #2: Backwash
- Cycle #4: Brine refill



3 - PROGRAM LEVEL # 1

LEVEL 1 - OPTION SETTINGS - INSTALLER PROGRAMMING

This level includes the functioning parameters of the softener related to the site conditions.

Note: If the chemical pump output feature is active, first remove the flow meter harness from the meter cover before entering any program level.

ENTERING LEVEL # 1

A - Depress the **P** button for 5 seconds. The program arrow turns on and the first display viewed is used to set the inlet water hardness.

B - The **▲** and **▼** set buttons are used to set the parameter values of different displays.

C - Passing to the next display, push the **P** button.

Note: depending on the current programming, certain displays will not be viewed or set.

1.1

WATER HARDNESS

Not viewed in timeclock regeneration mode or when the volume override is activated.

The unit of measure used for the parameter is °tH⁽¹⁾. The red led next to the symbol identifies this parameter CaCO₃. Adjust the value with the **▲** and **▼** set buttons.

Ex.: Hardness 30 °tH⁽¹⁾

[- - - - 30]

1.2

WATER HARDNESS AFTER THE MIXING VALVE (P)

Not viewed in timeclock regeneration mode, with the volume override activated, or in US format, or if 8 set on 1⁽²⁾

Depress **P** button. The letter "P" identifies this parameter. The unit of measure is the °tH⁽¹⁾. Adjust the value with the **▲** and **▼** set buttons.

Ex.: Hardness after the mixing valve 6 °tH⁽¹⁾ :

[P - - - - 6]

1.3

SYSTEM CAPACITY

Not viewed in timeclock regeneration mode or when the volume override is activated.

Depress the **P** button. The red led next to the symbol  turns on. The unit of measure used is the m³ °tH⁽¹⁾.

This display uses to set the capacity of the softener. If required, the electronic will calculate a reserve. Adjust the value with the **▲** and **▼** set buttons.

Ex.: Capacity 1200 m³ °tH⁽¹⁾ :

[- - - - 1200]

(1) The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).


(2) see point 2.16



3 - PROGRAM LEVEL # 1

1.4 REGENERATION TIME

Not viewed in meter immediate regeneration mode.

Depress the **P** button. The red led next to the symbol  turns on as well as a non-flashing dot between the hour set and minute set of numbers. Set the regeneration time with the **▲** and **▼** set buttons.

Ex.: Regeneration at 2:00 A.M. [--2:00--]

1.5 REGENERATION CYCLE PROGRAMMING

TO
1.10
The cycle 6 will not be viewed if the cycle 5 is cancelled [5--- OFF]. For RM, the cycle 1 will only be viewed.

Depress the **P** button. The next displays are a part of a series of option settings used to program the regenerate cycles. Up to 6 cycles can be programmed. Only a led identifies the four first displays led. Each display is used to set the duration time (in minute) of that cycle in the regeneration.

The first display in the series is regeneration cycle 1, example: Backwash ⁽¹⁾

Ex.: Cycle 1 (Backwash): 8 minutes [1 - - - 8.0]

Cycle 4 (Brine refill): 8.4 minutes (8 min and 24 s.) [4 - - - 8.4]

EXISTING THE LEVEL 1 PROGRAMMING

When the cycle 5 display (or cycle 6 if cycle 5 is activated) is viewed, depress once again the **P** button. The electronic returns in service.

Installer note:

1. Reserve capacity calculation: in meter delayed regeneration mode, the electronic automatically calculates its reserve capacity based on daily water usage.
2. System capacity and water hardness will not be viewed or set with the timeclock systems or with the volume override set.
3. The regeneration time will not be viewed or set with the meter immediate regeneration mode.
4. Voltage range for reliable operation of the electronic:
24V +/- 10% Frequency: 50/60 Hz




4 - PROGRAM LEVEL #2

Note:

1. Push the **P** button once per display.
2. Option settings may be changed by pushing the **▲** and **▼** set buttons.
3. Depending on current valve programming, some displays will not be viewed or set.



The valve is in service position. To enter in the second level, push and hold the **P** button for 5 seconds.

Then depress the button  for 5 seconds. You are in the second level.

2.1. Flow rate (Fr) in l/min ⁽¹⁾
 Ex.: 8,6 l/min *non adjustable* [Fr - - 8.6]

2.2. Days since the last regeneration (d)
 Ex.: 2 days *non adjustable* [d - - - -2]

2.3. Prior service volume used in m³ ⁽¹⁾ (E)
 Ex.: 58,6 m³ *non adjustable* [E - - 58.6]

2.4. Reserve capacity (rc) in m³ ⁽¹⁾
 Ex.: 24,6 m³ *non adjustable* [rc - - 24.6]

2.5. Previous days water usage (Pd) in m³ ⁽¹⁾
 Ex.: 28,4 m³ *non adjustable* [Pd - - 28.4]

2.6. Indicator of chlorination (J)
 Ex.: - Chloration during the cycle 2 [J - - - -2]
 - No chloration [J - - - OFF]

2.7.a. Start time of relay #1 (y)
 Ex.: - Turn on at the start of Backwash. [y - - - - 0]
 - Cancel setting [- - - - OFF]

2.7.b. End time of relay #1 (y)
 Ex.: - Turn off after 10 min [- - - - 10.0]
 - Turn off when back to service [- - - - S]

2.8.a. Start time of relay #2 (r)
 Ex.: - Turn on 10 min after start Backwash [r - - - - 10]
 - Cancel setting [r - - - OFF]

Note: setting not viewed if relay #1 is cancelled.

2.8.b. End time of relay #2 (r)
 Ex.: - Turn off after 60 min [- - - - 60]
 - Turn off when back to service. [- - - - S]

(1) The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).



4 - PROGRAM LEVEL #2

Note:

1. Push the **P** button once per display.
2. Option settings may be changed by pushing the **▲** and **▼** set buttons.
3. Depending on current valve programming, some displays will not be viewed or set.



2.9.a Time setting for chemical pump (n) :

Ex.: - Turn on in service for 1 min [n - - - - 1.0]
 - Cancel setting [n - - - OFF]

Note: setting not viewed on timeclock valves.

2.9.b Volume count setting for chemical pump in m³ ⁽¹⁾

Ex.: - Turn on every 0,2 m³ [- - - - 0.2]

2.10. Regeneration day override (A)

Ex.: - Override every 7 days [A - - - - 7]
 - Cancel setting [A - - OFF]

Note: in timeclock regeneration, never cancel this setting.

2.11. Volume override (b) in m³ ⁽¹⁾

Ex.: - Regenerate every 80 m³ [b - - - 80]

Note: if b is set, water hardness and system capacity are not viewed.

2.12. Display format (U)

Ex.: - US format (Gallon) [U - - - - 1]
 - Litre format [U - - - - 2]
 - Standard metric [U - - - - 3]
 - Cubic meter format [U - - - - 4]
 - Japanese metric format [U - - - - 5]

Note: If this parameter is changed, the programming comes immediately back to the level 1 and directly followed by the level 2.

2.13.a ValveType (o)

Ex.: - 2510 - 3900 valves (ET timer) [o - - - - 3]
 - 9000 - 9500 valves (ET timer) [o - - - - 4]

2.13.b Tank in service indicator (o-4)

Note: only viewed for 9000 and 9500, when "o" set on 4 (see 2.13.a)

Ex.: - Tank 1 in service [o - 4 - - U1]

2.14 Regeneration type (7)

Ex.: - Timeclock [7 - - - - 1]
 - Meter immediate [7 - - - - 2]
 - Meter delayed [7 - - - - 3]

(1) The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).



4 - PROGRAM LEVEL #2

Note:

1. Push the **P** button once per display.
2. Option settings may be changed by pushing the **▲** and **▼** set buttons.
3. Depending on current valve programming, some displays will not be viewed or set.



2.15 Flow meter size (F)

- Ex.: - Standard 3/8"
 - Standard 3/4"
 - Standard 1"
 - Standard 1.5"
 - Standard 2"
 - Standard 3"
 - Not used

- [F - - - - 0]
 [F - - - - 1]
 [F - - - - 2]
 [F - - - - 3]
 [F - - - - 4]
 [F - - - - 5]
 [F - - - - 6]



2.16 Mixing valve location (8)

- Ex.: - No mixing valve
 - Mixing valve before flow meter
 - Mixing valve after flow meter

- [8 - - - - 1]
 [8 - - - - 2]
 [8 - - - - 3]



2.17 System type (9)

- Ex.: - System #4 - One single electronic or 9000 or 9500 valves
 - System #5 - "Interlock": Multivalves system with independent ET valves

- [9 - - - - 4]
 [9 - - - - 5]



2.18 Program lockout (PI)

- Ex.: - Cancel lockout
 - Lockout active

- [PI - - - OFF]
 [PI - - - On]



Level #2 exit.

The valve returns in normal operation.

(1) The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).



4 - PROGRAM LEVEL #2

LEVEL #2 - OPTION SETTINGS - SOFTENER MANUFACTURER PROGRAMMING

Setting up the valve during manufacturing of the softener requires access to the second level of programming. This level includes the functioning parameters of the softener related to actual system configuration.

ENTERING LEVEL #2

- A- Depress the button **[P]** for 5 seconds. The program arrow turns on and the first display viewed is used to set the inlet water hardness. Then depress the button **[↺]** for 5 seconds.
- B- The **[▲]** and **[▼]** set buttons are used to set the parameter values of different displays.
- C- Passing to the next display, push the **[P]** button.

Note: depending on the current programming, certain displays will not be viewed or set.

2.1

FLOW RATE (Fr)

Not viewed in timeclock regeneration mode.

Depress the button **[P]**. This display is identified by the letters "Fr". This first display is the current flow rate of treated water. The unit of measure is the litre per minute.

Ex.: 8,6 l/min

[Fr - - - 8.6]

2.2

DAYS SINCE THE LAST REGENERATION (d)

Depress the button **[P]**. This parameter is identified by the letter "d". This display shows the number of days recorded since the last regeneration. This display is used as an aid in the valve maintenance and is not an option setting.

Ex.: 2 days

[d - - - - 2]

2.3

PRIOR SERVICE VOLUME USED (E)

Not viewed in timeclock regeneration mode.

Depress the button **[P]**. This display is identified by the letter "E". This display shows the amount of water used since the last regeneration. This display is used as an aid in the valve maintenance and is not an option setting. The unit of measure used depends on the display format chosen ⁽¹⁾.

Ex.: 58,6 m³ ⁽¹⁾

[E - - - 58.6]

⁽¹⁾ The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).



4 - PROGRAM LEVEL #2

2.4 RESERVE CAPACITY (rc)

Not viewed in timeclock regeneration mode.

Depress the button **P**. This parameter is identified by the letters "rc". This display shows the reserve capacity calculated by the electronic for the present day. This display is used as an aid in the valve maintenance and is not an option setting. The unit of measure used depends on the display format chosen ⁽¹⁾.

Ex.: 24,6 m³ ⁽¹⁾

[rc - - 24.6]

2.5 PREVIOUS DAYS WATER USAGE (Pd)

Not viewed in timeclock regeneration mode.

Depress the button **P**. This display is identified by the letters "Pd". This display shows the previous days water usage recorded. This display is used as an aid in the valve maintenance and is not an option setting. The unit of measure used depends on the display format chosen ⁽¹⁾.

Ex.: 28,4 m³ ⁽¹⁾

[Pd - - 28.4]

2.6 LOCATION FOR CHLORINATION INDICATOR (J)

Not viewed in RM version (Remote Meter).

Depress the button **P**. This display is identified by the letter "J". This display is used to set the desired regeneration cycle number where the chlorinating indicator will turn on in the regeneration display. This parameter does not command the chlorinator whom has to be handled by a microswitch or by a time auxiliary output.

Ex.: No chlorinator installed

[J- - - OFF]

Chlorinator to turn on during the cycle 2

[J- - - - -2]

Note: During a regeneration with the chlorinating indicator set, for example cycle 2, the regeneration display will show:

[2C- - 38.2]

Timed auxiliary output programming (y) (r) (n):

See points 2.7, 2.8 and 2.9

*Depress the button **P**. The next three display viewed are part of a series of option setting used to program the auxiliary relay output. The first two settings ("y" and "r") turn the output on / off during regeneration only. Two independent signals can be programmed for the same output during regeneration. The third ("n") turns the output on during the service only, when a set volume of water used has accumulated and for a set duration.*

Note: when more than one of these settings are used, it will be up to the softener manufacturer to supply the switching logic necessary to operate two or three of device of equipment at a time from a single relay output.

⁽¹⁾ The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).



4 - PROGRAM LEVEL #2

2.7.A TIME AUXILIARY OUTPUT (y)

& 2.7.B *2.7.B only viewed if 2.7.A (y) is activated.*

Depress the button **P**. This parameter is identified by the letter "y". This option setting consists of two displays. The first display is used to set the turn on time of the output. The second one is used to set the turn off on time of the output. An OFF setting cancels this option. With a set off time of "S" will turn the output off at the back of service. All settings are in minutes. The setting time of the output has not to be longer than the total time of regeneration.

Note: all setting times of the output are synchronised with regeneration cycle timing.

Ex.: Turn on output at start of regeneration cycle 1, turn off after 10 min

- Start time display [y - - - - 0]
- Stop time display [- - - - 10.0]
- Option cancelled [y - - - OFF]

2.8.a TIME AUXILIARY OUTPUT (r)

& 2.8.b *Not viewed if [y - - OFF]; 2.8.b only viewed if 2.8.a is activated.*

Depress the button **P**. This parameter is identified by the letter "r". This option setting consists of two displays. The first display is used to set the turn on time of the output. The second one is used to set the turn off time of the output. An OFF setting cancels this option. With a set off time of "S" will turn the output off at the start of service. All settings are in minutes. The turn on time of "r" cannot be lower than the turn off time of "y".

Note: all setting times of the output are synchronised with regeneration cycle timing.

- Ex.: - Turn on the output 15 min after the start of the regeneration cycle 1 [r - - - - 15]
- Turn off when in service [- - - - -S]
 - Option cancelled [r - - - OFF]

2.9.a CHEMICAL PUMP OUTPUT (n) - T.A.O.

& 2.9.b *Not viewed in timeclock regeneration mode.*

Depress the button **P**. This parameter is identified by the letter "n". This option consists of two displays. This first display is used to set the turn on time (in minutes) of the output. This second one is used to set the volume of water flow at which the output will turn on. The unit of measure used in the second display depends on the display format chosen ⁽¹⁾.

- Ex.: - Turn on the output for 1min after every 200 l ⁽¹⁾ [n - - - - 1.0]
- Turn on the output for 1 second after every 50 l ⁽¹⁾ [- - - - 200]
 - Option cancelled [n - - - - P]
 - [- - - - -50]
 - [n - - - OFF]

⁽¹⁾ The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).



4 - PROGRAM LEVEL #2

2.10 REGENERATION DAY OVERRIDE (A)

In timeclock regeneration mode, a value must be set.

Depress the button **P**. This parameter is identified by the letter "A". This option is used to set the regeneration day override option setting. This override setting determines the maximum amount of time (in days) the softener can be in service without a regeneration, regardless of the volume of water used or the lack of a sensor signal. The regeneration begins at the set regeneration time.

Ex.: - Override every 7 days [A - - - - 7]
- Option cancelled [A - - - OFF]

2.11 VOLUME OVERRIDE (b)

Not viewed in timeclock regeneration mode.

Depress the button **P**. This display is identified by the letter "b". The volume override option is used to set the maximum amount of water that can be used before a regeneration cycle is called for. This option is typically used to bypass standard reserve or capacity calculations made by the electronic. When this feature is used with meter delayed regeneration systems, it will be up to the installer to determine a reserve capacity and subtract it from the calculated full capacity. The unit of measure depends on the display format chosen ⁽¹⁾.

Ex.: - Override every 2.6 m³ ⁽¹⁾ [b- - - - 2.6]
- Option cancelled [b- - - OFF]

2.12 DISPLAY FORMAT (U)

Note: If this parameter is changed, the programming comes immediately back to the level 1 and directly followed by the level 2.

Depress the button **P**. This display is identified by the letter "U". One of five following display formats can be used.

The current format used is the cubic meter (U4): the volume is in cubic meter (m³), the flow rate in litre per minute (l/min), 24 hours timekeeping format, water hardness in French degrees or °tH degrees and the system capacity in °tH degrees cubic meter (°tH x m³).

The format used for small volume is the litre (U2): the volume is in litre (l), the flow rate in litre per minute (l/min), 24 hours timekeeping format, water hardness in French degrees or °tH degrees and the system capacity in °tH degrees cubic meter (°tH x m³).

Ex.: - US format (not used) [U - - - - 1]
- **Litre format** [U - - - - 2]
- Standard metric (not used) [U - - - - 3]
- **Cubic meter format** [U - - - - 4]
- Japanese metric format (not used) [U - - - - 5]

Note: for further information, please contact our customer service.

⁽¹⁾ The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).



4 - PROGRAM LEVEL #2

2.13.A

VALVE TYPE (0)

Not viewed in RM version (Remote Meter)

Depress the button **P**. This parameter is identified by the letter "o". This display is used to set the type of valve used with the 3200 ET. There are five possible settings, only the numbers 3 and 4 are used.

Not used [o - - - - 1]

Not used [o - - - - 2]

2510 - 3900 valves. When the number 3 is selected, the 3200 ET timer operate normally, all led are used. The volume remaining will be able to count down when the valve is back in service.

For 2510 / 2750 / 2850 / 2900 / 2930 / 3130 / 3150 / 3900 valves [o - - - - 3]

9000 and 9500 valves. When the number 4 is selected, the 3200 ET timer operate normally, all led are used. The volume remaining will be able to count down at the start of the regeneration. During regeneration, the volume remaining and the regeneration displays will alternate being viewed: 10 seconds for the regeneration display and 5 seconds for the volume remaining display.

For 9000/9500 valves [o - - - - 4]

2.13.B

TANK IN SERVICE (0-4)

Only visible with [o - - - 4]: , for 9000 and 9500 valves

Depress the button **P**. This display is identified by "o-4". This display shows which tank (Unit) is in service (adjusted by the installer).

Ex.: - tank 1 in service [o-4 - - U1]

2.14

REGENERATION TYPE (7)

Depress the button **P**. This display is identified by the number "7". This option is used to set the regeneration type. There are several possible option settings:

- Timeclock: the electronic determines that regeneration is required when the set regeneration time has been reached. The regeneration day override setting (see point 2.10) determines the number of days between two regenerations. [7 - - - - 1]

- Meter immediate: the electronic determines that regeneration is required when the available volume of softened water drops to zero. The regeneration begins immediately. [7 - - - - 2]

- Meter delayed: the electronic determines that regeneration is required when the available volume of softened water drops to the reserve capacity. The regeneration begins immediately at the set regeneration time only when the service flow has not been detected. With service flow, the regeneration will be delayed in two 10 minute sections. After then if there is always a flow, the regeneration begins immediately. There will be not a delay if the reserve capacity is zero. [7 - - - - 3]

- Regeneration type 4: not used [7 - - - - 4]

Note: for the following options, please contact our customer service.

- Sensor immediate regeneration [7 - - - - 5]

- Sensor delayed regeneration [7 - - - - 6]



4 - PROGRAM LEVEL #2

2.15 FLOW METER SIZE (F)

Not viewed in timeclock regeneration mode.

Depress the button **P**. This parameter is identified by the letter "F". This option is used to set the flow meter size. Seven settings are possible.

Standard 3/8"	[F - - - - 0]
Standard 3/4"	[F - - - - 1]
Standard 1"	[F - - - - 2]
Standard 1.5"	[F - - - - 3]
Standard 2"	[F - - - - 4]
Standard 3"	[F - - - - 5]
Not used	[F - - - - 6]

2.16 MIXING VALVE LOCATION (8)

Not viewed in timeclock regeneration mode.

Depress the button **P**. This display is identified by the number "8". This option is used to indicate where the mixing valve is located. Three settings are possible.

No mixing valve	[8 - - - - 1]
Mixing valve before flow meter	[8 - - - - 2]
Mixing valve after flow meter	[8 - - - - 3]

2.17 SYSTEM TYPE (9)

Not viewed in RM version (Remote meter).

Depress the button **P**. This display is identified by the number "9". This display is used to set the type of system the valve is operating in. Two settings are available.

Single valves and 9000/9500: System #4. [9 - - - - 4]

Two valves interlocked regeneration: System #5. Each 3200 ET timer generates a lockout signal whenever it is in regeneration. The other 3200 ET timer will delay the start of regeneration until the lockout signal is removed.

Indication on each 3200 ET timer [9 - - - - 5]

(1) The unit of measure depends on the display format chosen. All examples above are based on the cubic meter format. (see point 2.12).



4 - PROGRAM LEVEL #2

2.18 PROGRAM LOCKOUT (PI)

Depress the button **[P]**. This display is identified by the letters "PI". This display is used to prevent certain programming displays from being viewed or set. Two settings are available:

Protection cancelled

[PI --- OFF]

Protection active

[PI ---- On]

Settings and displays able to be viewed or reset with protection active

In service:

- Time of day
- Volume remaining
- Flow rate
- Totalizer

In programming level 1

- Water hardness
- Water hardness after mixing valve (P)
- regeneration time

In programming level 2

- Flow rate (Fr)
- Days since the last regeneration (d)
- Prior service volume used (E)
- Reserve capacity (rc)
- Previous days water usage (Pd)

The program lockout can be cancelled by depressing the button **[P]** for 25 seconds.

ATTENTION: depress the button **[P]** for 25 seconds when the program lockout is not activated will erase all previous display setting; the electronic will reset to default values. The electronic programming will have to be completely redone.

EXITING THE LEVEL 2 PROGRAMMING

Depress again the button **[P]**, the electronic comes back in service.

Note: for further information, please contact our customer service.

