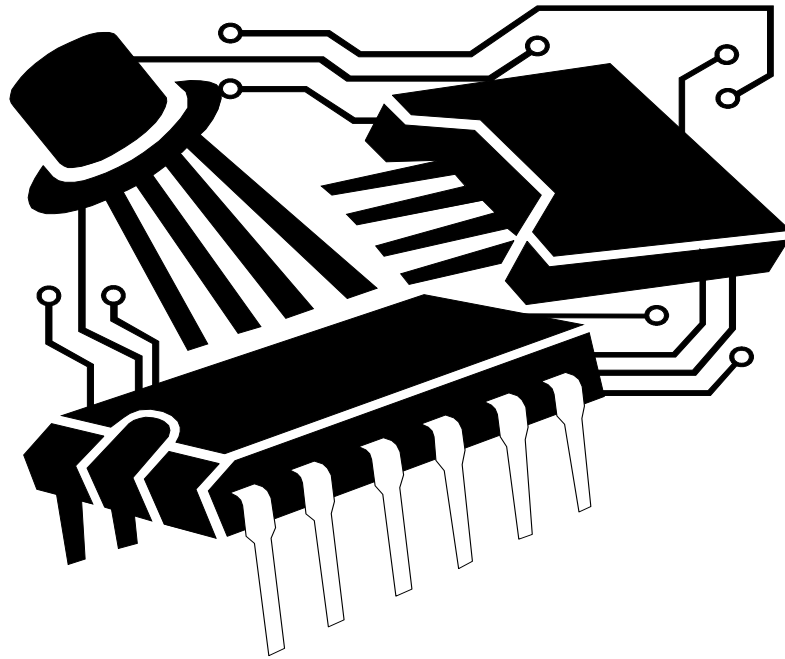


Model 2850SE/FILTER OEM Manual



To get into the master programming mode, which effectively tells the system what it is and what it is supposed to do, you have to get through the "security lock". This is done by setting the time of day to 12:01pm using the UP or DOWN arrows. When you have established the time at 12:01 you must then press the UP and DOWN arrow buttons simultaneously for 5 seconds. This lets you into the master programming mode.

A word of caution. When using the UP or DOWN arrow buttons you will notice that the longer you keep the button depressed, the faster the digits change. This can be annoying at first because you will keep missing the setting you require. A series of quick depressions on the appropriate button is usually the best way.

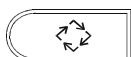
MODEL 2850SE/FILTER

master programming mode

1. Display format [U - - ?]

This display is used to determine the display format and is identified by the letter 'U' as the first digit in the display window. Use the UP or DOWN arrow button to set this display to [U - - 2]. In this format the volume unit displays will be in LITRES (up to 9999) and time displays will be in 24 hour clock format.

Alternatively, set the display to [U - - 4] and the volume unit displays will be in cubic metres (m³) (up to 999.9) with the time displays also in 24 hour clock format. NOTE: The P.M. indicator is disabled. Recovery timings will be in minutes with an accuracy of 0.1 minute. See NOTE 2 at the end of this document



←PRESS

2. Recovery type [7 - - ?]

This display is used to determine the recovery initiation format. There are three possible options:

Timeclock Delayed [7 - - 1]

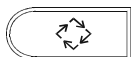
The control will determine that a recovery is required when the set Recovery Time has been reached. The Recovery Day Override setting will determine on which days a recovery cycle will be initiated.

Immediate meter [7 - - 2]

The control will determine that a recovery is required when the system capacity value reaches zero. Recovery begins immediately, regardless of the time.

Delayed meter [7 - - 3]

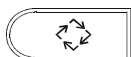
The control will determine that a recovery is required when the system capacity value reaches zero. Recovery begins immediately at the set Recovery Time.



←PRESS

3. System capacity (no display code)

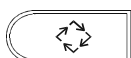
This display is used to establish the volume of filtered water that the system can produce between recovery cycles. If [U - - 2] was set previously then the value to be set in the display should be in LITRES using the UP or DOWN arrow buttons. If [U - - 4] was set then the value to be set in the display should be in m³ and it can be set to an accuracy of 1 decimal place (100 litres). If time only based [7--1] was selected then this step is skipped.



←PRESS

4. Recovery Time (no display code)

This display is used to establish the Recovery Time. It is identified by a non-flashing colon between two sets of numbers. Set the desired time of day that a recovery may occur, if required. This display will not be viewed with Immediate Meter Recovery option set.



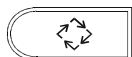
←PRESS

MODEL 2850SE/FILTER

master programming mode

5. Recovery day override [A - - -]

This display is used to establish the maximum number of days between recoveries. For example [A - - 4]. This will force a recovery every 4 days regardless of water use.



←PRESS

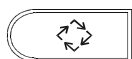
6. Recovery cycle step programming [1 thru 4]

This series of displays is used to establish the timings of the various recovery steps. Up to 4 steps can be programmed but for normal filter applications only 2 cycles are required.

Backwash step [1 - - ?]

This is the major recovery cycle water consumption steps and forms the most important part of the filter recovery process. It should be carefully considered. The time required is a function of the medium being used, the filter loading factors and the size of drain flow restrictor used.

For example, if you programme this step to [8 - - 0] then the backwash duration will be 8 minutes.

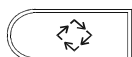


←PRESS

Unused function [2 - - ?]

This step is not required with this application and should be programmed to ZERO minutes to allow the valve to pass straight through the function.

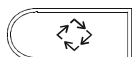
The setting must be [2 - - 0].



←PRESS

Rapid rinse [3 - - ?]

This is the other major recovery water consumption step which also needs to be carefully considered. Its purpose is to settle the filter bed and to purge any residual unfiltered water if unfiltered water is used for backwashing. The time set will depend on the water being used for backwash. A short time if filtered water is used and a longer time if not. If a duration of 10 minutes is required then the display should show [3 1 0.0].



←PRESS

Unused function [4 - - ?]

This step is not required with this application and should be programmed to ZERO minutes to allow the valve to pass straight through the function.

The setting must be [4 - - 0].



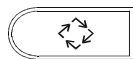
←PRESS

MODEL 2850SE/FILTER

master programming mode

Spare cycle [5 - - ?]

This cycle does not apply to the 2850SE valve and MUST be programmed to show [5 OFF]



←PRESS

7. Flow meter size [F - - ?]

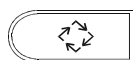
This display is used to define the water meter characteristics and MUST be set to show [F 1.1]. Any other value will cause false operation of the system.



←PRESS

8. Valve type [o - - ?]

This display is used to tell the control what type of system it is operating and MUST be set to show [o - - 1]

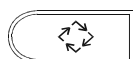


←PRESS

9. Line frequency [L F - -]

This display is used to tell the control the characteristics of the electrical power supply. It needs this information in order to properly determine both the time of day and the duration of the various steps. In Europe the value MUST be set to [L F 50] representing 50 Hz.

Exiting the programming mode is done by a final touch of the Extra Cycle button.



←PRESS

NOTE 1: If everything gets screwed up you can restore the permanent programme memory by pressing the UP and DOWN arrow buttons simultaneously for 25 seconds or until the time of day display shows [12:00]. The control will then have been reset to default values and you must then start back at the beginning to establish the required programme.

NOTE 2: This programmer device is also used in conjunction with other controls and has functions that are irrelevant to the 2850SE series valve. If you stray from the non optional settings described then your system may not work and you will find yourself in programming areas that fall outside the scope of these instructions.