

SSV7RT INSTRUCTIONS

INSTALLATION INSTRUCTIONS

CONTROLLER MOUNTING:

Find a suitable location to mount the control box. Ideally, as with all pool equipment it should be installed out of direct weather and no closer than 3m from the waters edge. Lift up the two mounting tabs and use two appropriate screws to mount the control box to the wall, keeping in mind that the power cable is 1.9m long and should be plugged directly into a general power outlet, not into extension leads.

All units should be plugged into an appropriate power out.

POOL SENSOR:

For retro-fit systems the pool sensor must be fitted in the suction line of the main filter pump or between the outlet of the filter and the 'T' fitting before the solar boost pump. It is recommended that a 14.5mm hole be drilled in the PVC pipe; this can be carried out using a 14.5mm drill-bit spinning in a counter clockwise direction to minimise the chance of shattering pipe. The sensor plug is to be fitted to the left hand socket.

ROOF SENSOR:

The roof sensor end must be fitted to a small piece of solar collector or equivalent and attached to the roof. The best location is within arms length of the guttering edge of the house or shed as long as the sensor end is not shaded and is on a roof of similar aspect of the main collector run, and must not be fitted on top of the solar collector.

Keep in mind that it is of the utmost importance to keep the roof sensor as short as possible as this will assist in the longevity of the sensor and controller in the event of electrical storm activity and power surges. Sensor cables must not be run parallel to power cables and run lengths should be less than 50m. Cable ties should be used to fasten the sensor cable to the cold water inlet pipe making sure that the ties are about 10mm from PVC fittings. Cable ties should be tightened firm but not too tight so the outer PVC of the cable is not broken.

If the cable is to be run under ground a conduit must be used to protect the wire and there is to be no cable joins within, ends of conduit must be sealed to prevent water ingress. **Any excess cable should be removed and re-fitted ensuring that the wire ends are tinned with solder.** The sensor plug is to be fitted to the right hand socket.

NOTES:

All excess cable must be removed; coils of cable are not permitted under any circumstances. If the cable is to be extended with non genuine cable a size of 14/020 should be used. **Any cable joins must be soldered and this includes where the cable enters the terminal block at the case base.** Heat shrink is to be used over soldered joints to eliminate moisture ingress.

If the case is opened to attach sensors then the polarity must be observed as incorrect polarity will show an error. If the sensor cable has a black and white lead, the white lead is positive and the black is negative and if each wire is the same color, the one with the thin trace is the positive and the solid colour is the negative.

Once cables have been correctly fitted the unit can be turned on.

OPERATING INSTRUCTIONS

SETTINGS MENU

To enter the SETTINGS MENU push either the UP or DOWN buttons and the following will be displayed;

SETTINGS MENU
1) MANUAL MODE

Use UP/DOWN buttons to scroll to the option you wish to change. Press the ENTER button to select the currently displayed menu item.

All menu items are shown below;

SETTINGS MENU
1) MANUAL MODE
2) FILTER TIMER
3) TEMPERATURE
4) MODE
5) CLOCK (24h)
6) SAVE & EXIT

1) MANUAL MODE

MANUAL PUMP MODE
UP=ON DOWN=OFF

MANUAL MODE allows you to manually set the aux pump to 'on' by pressing the UP button or 'off' by pressing the DOWN button.

Pressing ENTER will return you to the SETTINGS MENU. You can also keep pressing ENTER to toggle the filter pump from 'on' to 'off' and vice versa.

MANUAL MODE will time out, after 24 hours the controller will return to normal operation.

2) FILTER TIMER

SINGLE CYCLE
DUAL CYCLE

Single cycle sub menu

SINGLE CYCLE	SINGLE CYCLE
START TIME X:XX	END TIME X:XX

Dual cycle sub menus

FIRST CYCLE	FIRST CYCLE	SECOND CYCLE	SECOND CYCLE
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START TIME X:XX END TIME X:XX START TIME X:XX END TIME X:XX

When you enter the FILTER SETUP menu you will need to select SINGLE CYCLE or DUAL CYCLE, the selected option will be flashing, you can use the UP/DOWN buttons to change to the selected option, once you select the required cycle by pressing SELECT you will be prompted to set the cycle START TIME and END TIME, modify these by pressing the UP/DOWN buttons, press SELECT to accept the setting.

SINGLE CYCLE will run the filter pump once per day.

DUAL CYCLE will run the filter pump twice per day.

Factory Default is ON, DUAL CYCLE from 09:00 to 13:00 and 16:00 to 20:00

NOTE: Note that the maximum combined rated current is 10 Amps (2400W at 240VAC.)

3) TEMPERATURE

TEMPERATURE
SOL LIMIT XX.X°

When you enter the TEMPERATURE menu you may change the solar heater temperature limit setting (SOL LIMIT) by pressing the UP/DOWN buttons, if no change is required simply push ENTER.

Factory default is for SOL LIMIT is 30°C.

4) MODE

MODE
SUMMER MODE/WINTER MODE/TROPICAL MODE

You can use UP/DOWN to change the selected option, ENTER to accept.

SUMMER MODE is the normal operation of heating the swimming pool.

TROPICAL MODE is selected if you wish to cool the swimming pool, the solar pump will run if the roof temperature is colder than the pool until SOL LIMIT is obtained; note that this is most likely to occur at night.

WINTER MODE, when selected you will be prompted to select the start month and end month of winter (inclusive), this assists in the systems off-season maintenance and saves energy as solar gain may be available but swimming temperature cannot be achieved. If heat demand is set to OFF a 3 minute flush of the solar matting occurs between 10:00 and 16:00 providing the roof temperature is equal or greater than the pool, but if that condition does not occur a solar system flush will be forced to occur at 16:00.

If heat demand is ON the system operates similar to normal mode but solar pump activity is monitored and will force a 3 minute flush if solar has not been active for seven days, note the unit may flush if winter mode is selected on the day of install.

5) CLOCK (24h)

CLOCK (24h)
SET MINS XX

CLOCK (24h)
SET HOURS XX

CLOCK (24h)
SET DATE XX

CLOCK (24h)
SET MONTH XX

When you enter the CLOCK menu you will be prompted to change the MINS settings, adjust minutes by pressing the UP/DOWN buttons, to accept the setting press the ENTER button.

You will then be prompted to change the HOURS, adjust by pressing the UP/DOWN buttons, to accept the setting press the ENTER button.

You will then be prompted to change the DATE, adjust by pressing the UP/DOWN buttons, to accept the setting press the ENTER button.

You will then be prompted to change the MONTH, adjust by pressing the UP/DOWN buttons, to accept the setting press the ENTER button.

6) SAVE & EXIT

When this menu is selected, push ENTER to save ALL settings, the unit will return to normal operation automatically.

Note: If any of the menu items are left unattended for 3-4 mins the menu will time out and automatically save all settings and return to operation.

The *Enter* button

FOR MANUAL MODE
PRESS ENTER NOW

Pressing the ENTER button once will display the above message for approximately 3 seconds, simply wait and the unit will return to normal operation.

If the ENTER button is pressed for a second time within a 3 second period, the display will indicate you have entered Manual mode, operation is the same as manual mode in the menu with the only difference being the timeout value is 4 hours.

NOTES:

1. If a sensor fault is detected the SSV7RT will display which sensor and what the fault is.
2. Should power be interrupted for any reason, the SSV7RT will resume normal operation when power is restored, all information will have been kept.

3. Temperature sensors used with this unit are digital and are accurate to 0.5°C, no calibration is required.
4. The sensor cable with the thin trace is the positive and is usually fitted to the right hand side of the green plug, incorrect polarity will be displayed.
5. Solar start and end times may be changed by holding the up button while power is applied.

WARRANTY - SSV7RT

This range of product is covered by a limited 3 year warranty against component failure or faulty workmanship from the date of installation.

A faulty unit should be returned in the first instance to the dealer from which the unit was purchased.

Damage to the unit due to misuse, power surges, lightning strikes or installation that is not in accordance with the manufacturer's instruction may void the warranty.

Warranty does not cover travel costs to or from installation site.

Return to supplier for repair

Customer Record (to be retained by the customer)

Dealer/Installer Name: _____
Model Number: SSV7RT _____
Serial Number: _____
Date Installed: _____

For service assistance phone 1300 130 693

Dontek Electronics Pty Ltd
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Bayswater, Victoria 3153
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Return to Manufacturer for repair