



MS3D-UD
MULTI SOLAR
CONTROLLER
UP-DOWN

INSTALLATION: INCLUDED



Solar Controller



Down pipe Sensor



Up pipe Sensor



Mounting kit and template

INSTALLATION: REQUIRED

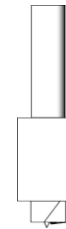
6mm Masonry drill bit
(required for raw plugs)



P-2 Phillips head
screw Driver



Drill with hammer action



1/2" or 12.5mm Drill bit
Or cutting Tool (ms-Drill)

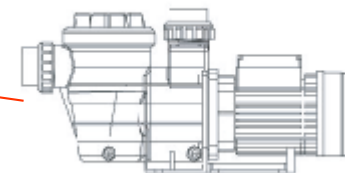
INSTALLATION: DO'S



3.5m



1.5m



Unit **must** be 3.5m from pool zone
Less than 1.5m from the pump



Unit **must** be mounted using screws provided.



1m

Unit **must** be installed in the upright
position 1 metre from the ground



INSTALLATION: DO NOT'S!



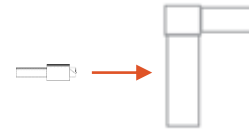
Do not immerse.
Do not place unit upside down.



Do not place within direct splashing
or spray from the pool.

INSTALLATION: UP PIPE SENSOR

☀ Using the 12.5mm drill bit, drill a hole into the up pipe.



☀ Put the grommet in first, then push in the up pipe sensor.

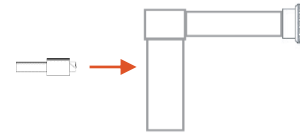


☀ Plug sensor cable into the unit using the red connectors.



INSTALLATION: DOWN PIPE SENSOR

- Using the 12.5mm drill bit, drill a hole into the down pipe.



- Put the grommet in first, then push in the down pipe sensor.




- Attach the cables to the unit using the red connectors.




INSTALLATION:

For a 'stand alone' system

 Plug controller piggy back into GPO if a stand alone system.



 Plug the solar pump into the base of solar controller



INSTALLATION:

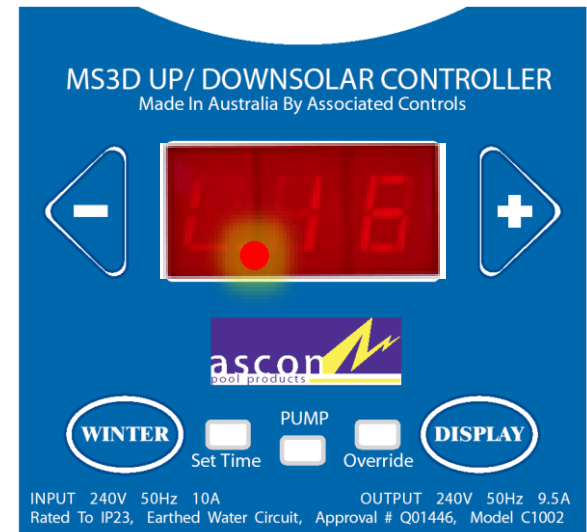
For an 'integrated' system

- ☀ Plug the chlorinator into the power point
- ☀ Plug the solar controller grey piggy back into the chlorinator.
- ☀ Plug the filter pump into the grey piggy back
- ☀ Plug the solar pump into the solar controller



OPERATION: START UP

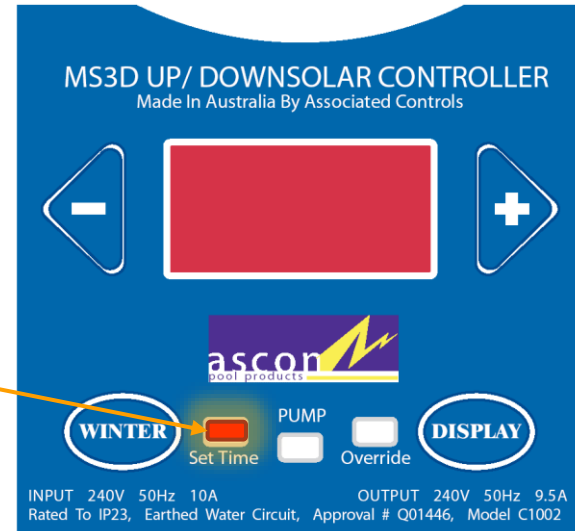
- ☀ When the unit is turned on, there will be a period of 2 mins while the MS3D-UD and the solar pump synchronise (indicated by flashing light).
- ☀ After 2 mins the unit will run for at least 6 mins to reset the down pipe sensor.



OPERATION: CLOCK SET UP


The clock will need to be set after the unit is powered up.

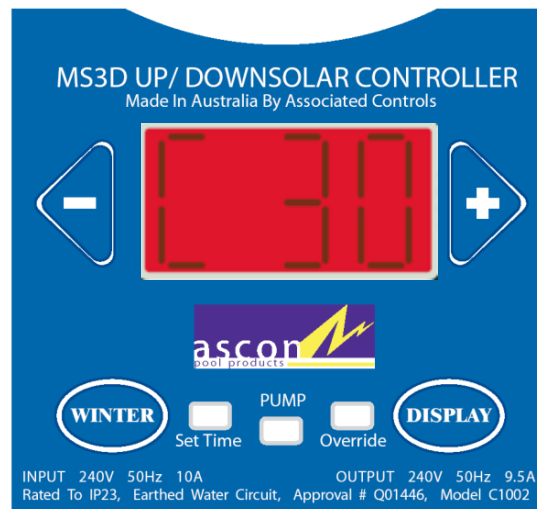
- ☀ When the unit is turned on, the set time LED will be flashing. Set the time using the ◀ for the hours and the ▶ for the minutes.




OPERATION: COMFORT TEMP ADJUSTMENT

The comfort temperature is the temperature the user wants their pool to be.

☀️ Press  button to decrease to minimum 20°C by 1°C increments.








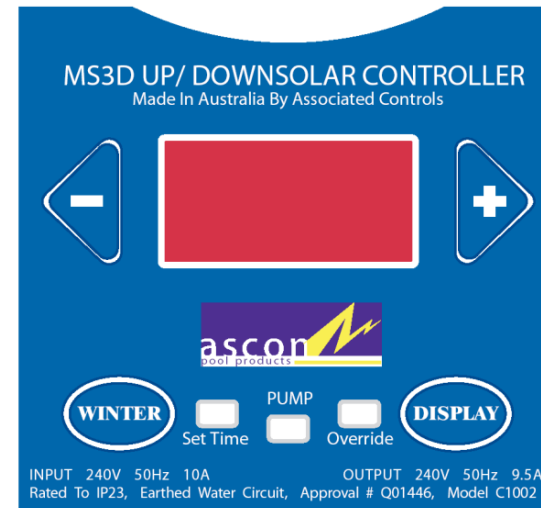
☀️ Press  button to increase to maximum 40°C by 1°C increments.

☀️ When the comfort temperature is set, this temperature will be stored, even when the unit is turned off.

OPERATION: DIFFERENTIAL TEMP ADJUSTMENT

The differential temperature is the difference in the temperature between the up pipe and the down pipe.





- ☀️ Press the ,  and  buttons at the same time.
- ☀️ The unit will show **dIF** on the display. The current differential is displayed.
- ☀️ To change the differential, press the  button to increase, and the  button to decrease.

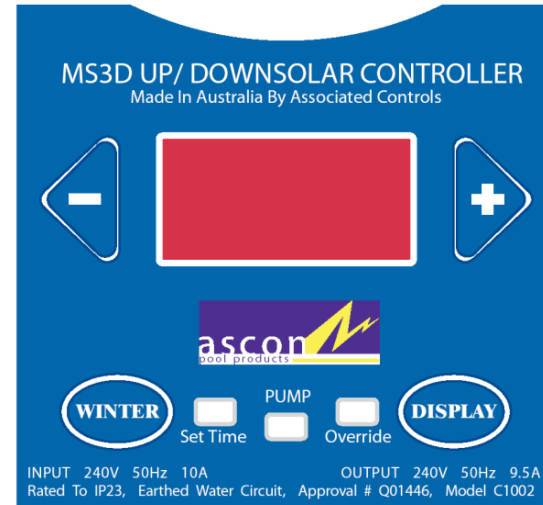


OPERATION: FINISH TIME ADJUSTMENT

The time of the day that the unit will cease operation until 8am the next day.

The default time is 4pm. (Unit operates in 24 hour time)


- ☀️ Press the  button and the  button at the same time.
- ☀️ The unit will display **Fin**
- ☀️ Use the  button to adjust the hours and the  button to adjust the minutes.

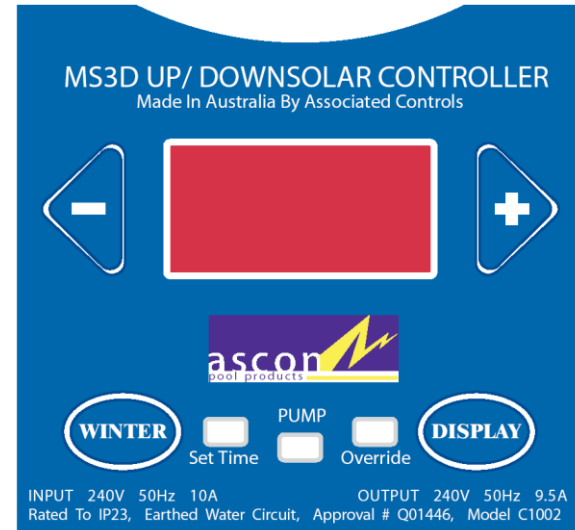


- ☀️ Between the finish time and 8am the unit will display **Nop** while The unit is not operating pump.

OPERATION: DISPLAY MODE

The display mode allows the user to check each mode setting without accessing or changing the current settings.

- ☀ To read up and down pipe temperatures, clock and comfort temperature settings, press 
- ☀ The unit will cycle through the settings showing:
 - U** For the up pipe temp.
 - d** For the down pipe temp.
 - L** For the last up pipe temp.
 - C** For the comfort setting.
 - H** Shows the clock hours.
 - M** Shows the clock minutes.

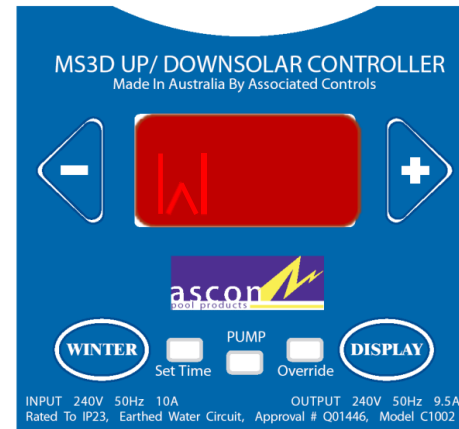


OPERATION: WINTER MODE

Winter mode allows the users solar system to function during cooler months. This extends the life of the solar heating system.

☀ At the end of the season press **WINTER** for winter mode.

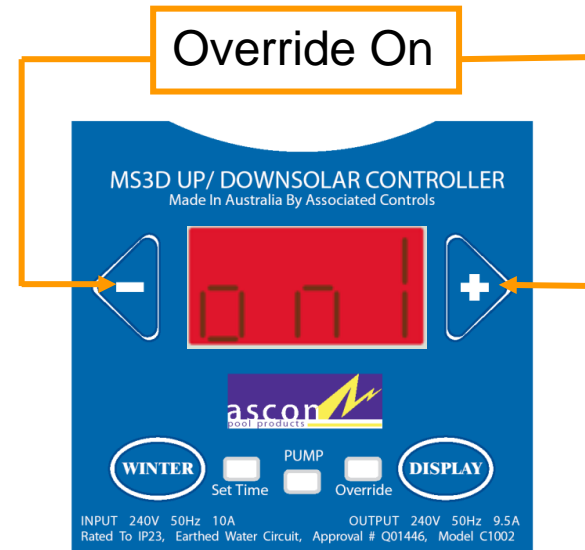
☀ At the start of the season press **WINTER** for normal operation.



OPERATION: OVERRIDE

What does override do?

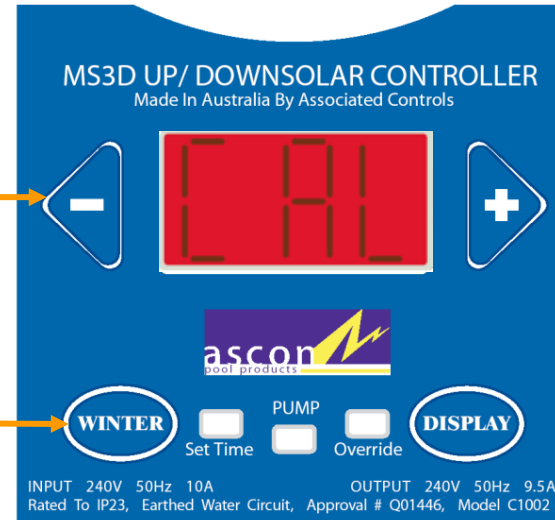
- ☀ To select a 1 hour override, Press ◀ and ▶ at the same time.
- ☀ To select a 4 hour override on, press and hold the ◀ and ▶ at the same time for 5 seconds.
- ☀ Press both buttons again to cancel the operation.



OPERATION: CALIBRATION

To calibrate the unit....

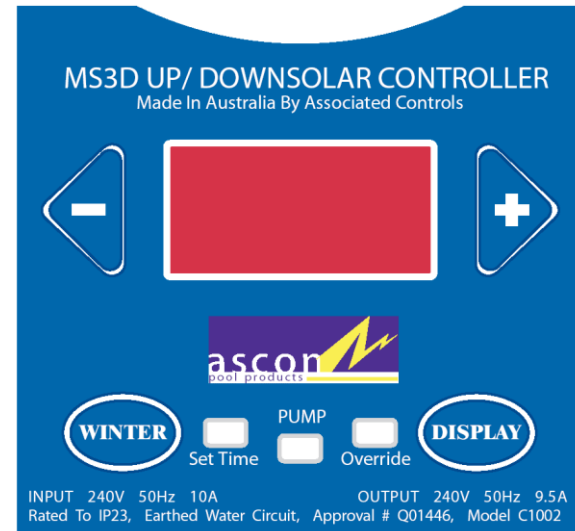
- ☀ Press **WINTER** and **←** to calibrate the down sensor
Display reads CAd then +00 .
Press **WINTER** and **→** to calibrate the pool sensor.
Display reads CAU then +00.
- ☀ Press the **←** or **→** to offset the temperature.



TO CHANGE OR RESET THE TIME

The MS3D-UD solar controller has a factory setting to NOT operate between 4pm and 8am.
The unit is in this mode when the display is reading NoP.

- ☀️ Press **WINTER** and **DISPLAY** buttons the same time until the display shows **SEt**
- ☀️ Press the **←** to change the hours; Press the **→** to change the minutes (time is in 24-hour time)



TROUBLE SHOOTING GUIDE



For further information, please refer to the
Installation Guide and Instruction Manual



www.asconpool.com.au