MS3D UP/ DOWNSOLAR CONTROLLER
Made In Australia By Associated Controls

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WINTER Set Time PUMP Override DISPLAY

INPUT 240V 50Hz 10A   OUTPUT 240V 50Hz 9.3A
Rated To IP23, Earthed Water Circuit, Approval # Q01446, Model C1002

MS3D-UD
MULTI SOLAR
CONTROLLER
UP-DOWN

INSTALLATION: INCLUDED

Solar Controller

Down pipe Sensor

Up pipe Sensor
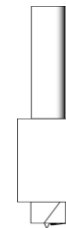
Mounting kit and template

INSTALLATION: REQUIRED

6mm Masonry drill bit
(required for raw plugs)

P-2 Phillips head
screw Driver

Drill with hammer action

½" or 12.5mm Drill bit
Or cutting Tool (ms-Drill)

INSTALLATION: DO'S

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

3.5m   1.5m

Unit must be mounted using screws provided.

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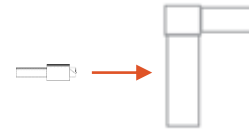position 1 metre from the ground

1m

INSTALLATION: DO NOT'S!

Do not immerse.
Do not place unit upside down.

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

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INSTALLATION: UP PIPE SENSOR

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

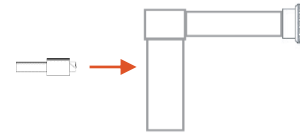○ Put the grommet in first, then push in the up pipe sensor.

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

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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.

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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
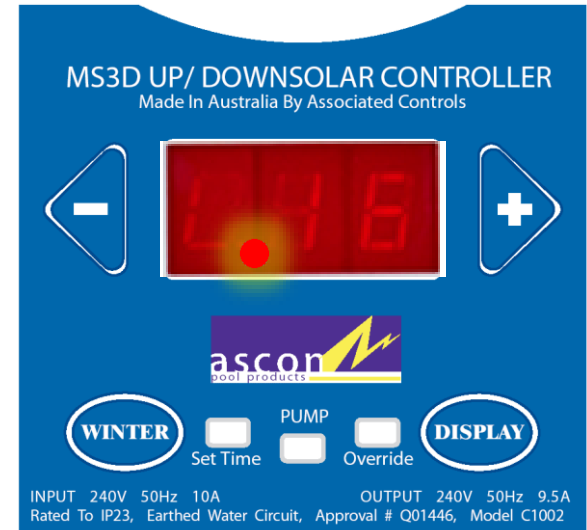

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INSTALLATION:

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

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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.

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WINTER
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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.

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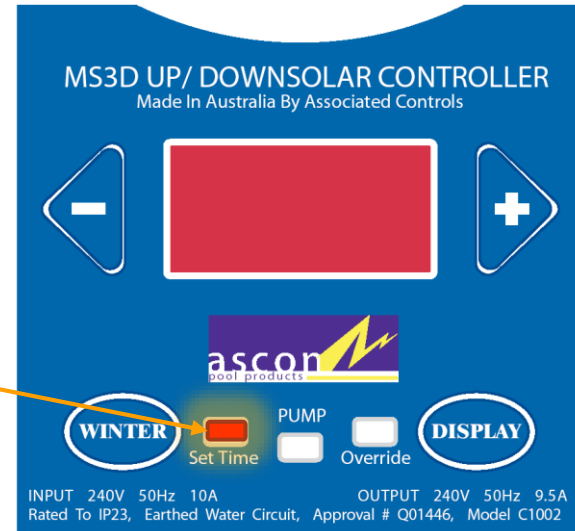
OPERATION: COMFORT TEMP ADJUSTMENT

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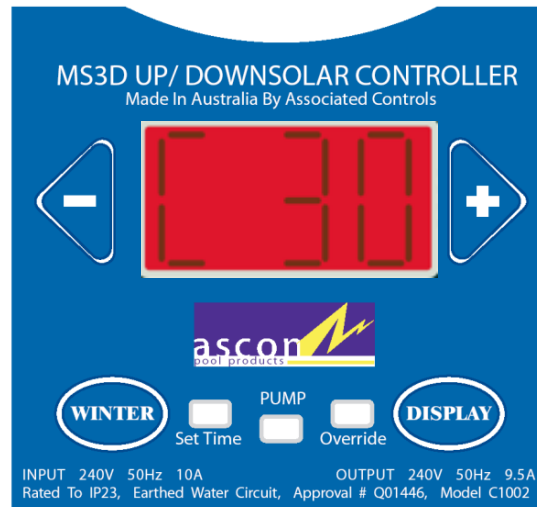
Press ▶ button to increase to maximum 40°C by 1°C increments.

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

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OPERATION: DIFFERENTIAL TEMP ADJUSTMENT

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

Press the **+** , **WINTER** and **DISPLAY** 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.

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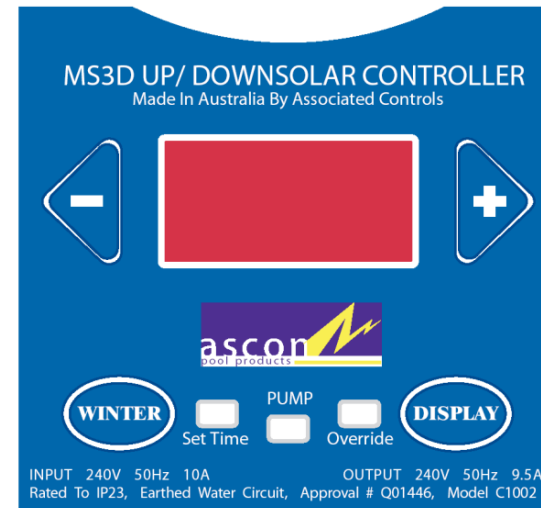
OPERATION: FINISH TIME ADJUSTMENT

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 **DISPLAY** button at the same time.

⚙ The unit will display **Fin**

⚙ Use the ◀ button the adjust the hours and the ➕ button to adjust the minutes.

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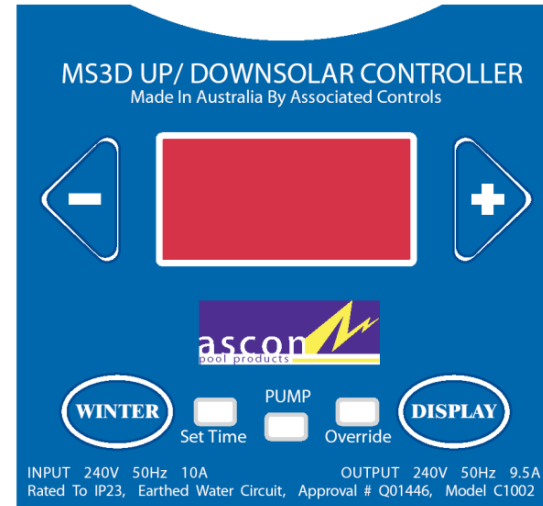
⚙ Between the finish time and 8am the unit will display **Nop** while The unit is not operating pump.

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 **DISPLAY**

☼ 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.

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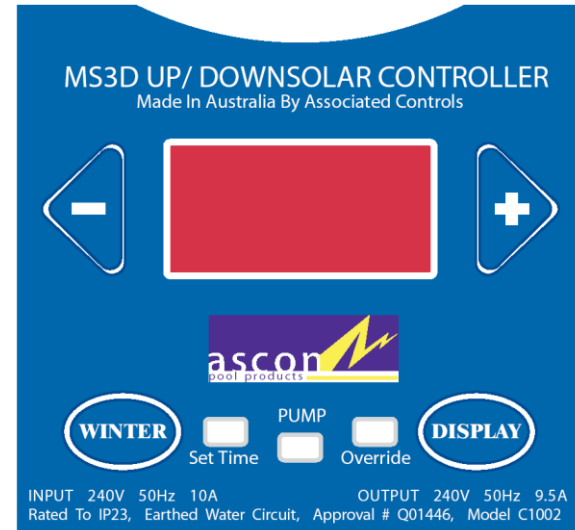
OPERATION: WINTER MODE

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.

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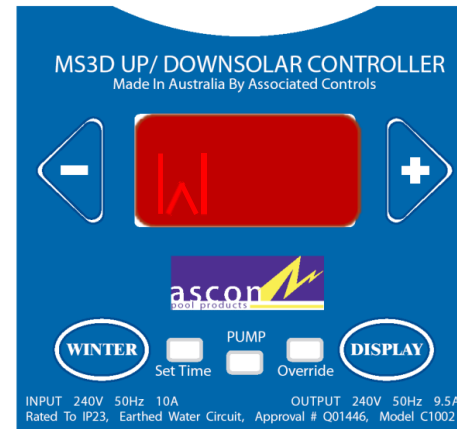
OPERATION: OVERRIDE

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.

Override On

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WINTER | Set Time | PUMP / Override | DISPLAY

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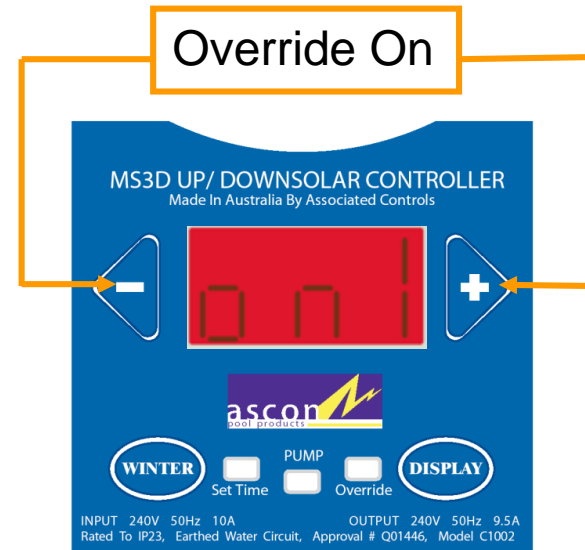
OPERATION: CALIBRATION

To calibrate the unit….

⚙ Press **WINTER** and ◀
to calibrate the pool sensor
Display reads CAL then
+00 .
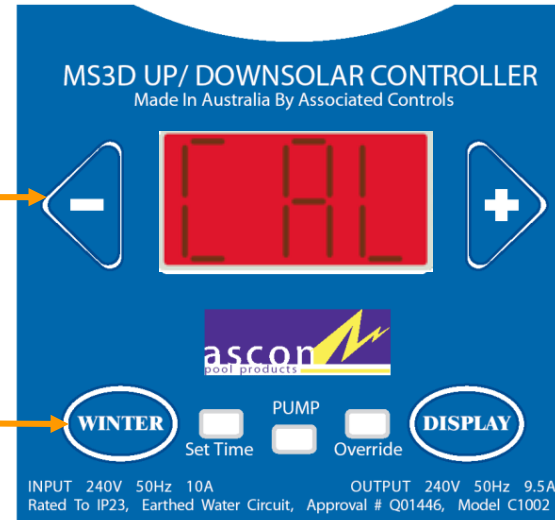
⚙ Press the ◀ or ▶ to offset
the temperature.

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CAL

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TROUBLE SHOOTING GUIDE

Is there a display on the screen?

No → Is the controller plugged into the power point or chlorinator?

Yes → Clock needs to be reset.

No → Plug controller into power point (for stand-alone system) or chlorinator (for integrated system).

Yes → Is the controller...

...turning on the pump at night?

Yes → Check that the clock is set correctly. → Press the 'DISPLAY' and 'WINTER' buttons together. Adjust the time by pressing '-'for hours and '+' for minutes.

...showing an error code on the display?

The display reading is 'EuP.' → The 'up pipe' sensor is faulty. → Unplug both sensors at the red bullet connectors, swap the connectors.

→ If the display still reads 'EuP' the unit and the sensor need to be replaced or repaired.

→ If the display reads 'Edn' the up pipe sensor needs to be replaced.

The display reading is 'Edn' → The 'down pipe' sensor is faulty → Unplug both sensors at the red bullet connectors, swap the connectors.

→ If the display still reads 'Edn' the unit and the sensor need to be replaced or repaired.

→ If the display reads 'Eup' the down pipe sensor needs to be replaced.

The display reading is 'EEE'. → Please return for service.

...not powering the pump

Is the solar pump plugged into the base of the controller?

Yes → Press the + and – buttons at the same time to override the system. → No change? Please return for service.

No → Plug the solar pump into the base of the controller.

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

www.asconpool.com.au