MS3D
MULTI SOLAR CONTROLLER

INSTALLATION: INCLUDED

Solar Controller

Pool Sensor

Roof Sensor

Mounting kit and template

INSTALLATION: REQUIRED
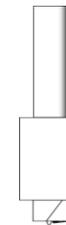
6mm Masonry drill bit
(required for raw plugs)

P-2 Phillips head
screw Driver

Silicone

Drill with hammer action

½" or 12.5mm Drill bit
Or cutting Tool (ms-Drill)
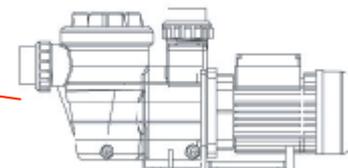
INSTALLATION: DO'S

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

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INSTALLATION: DO NOT'S!

Do not immerse.
Do not place unit upside down.
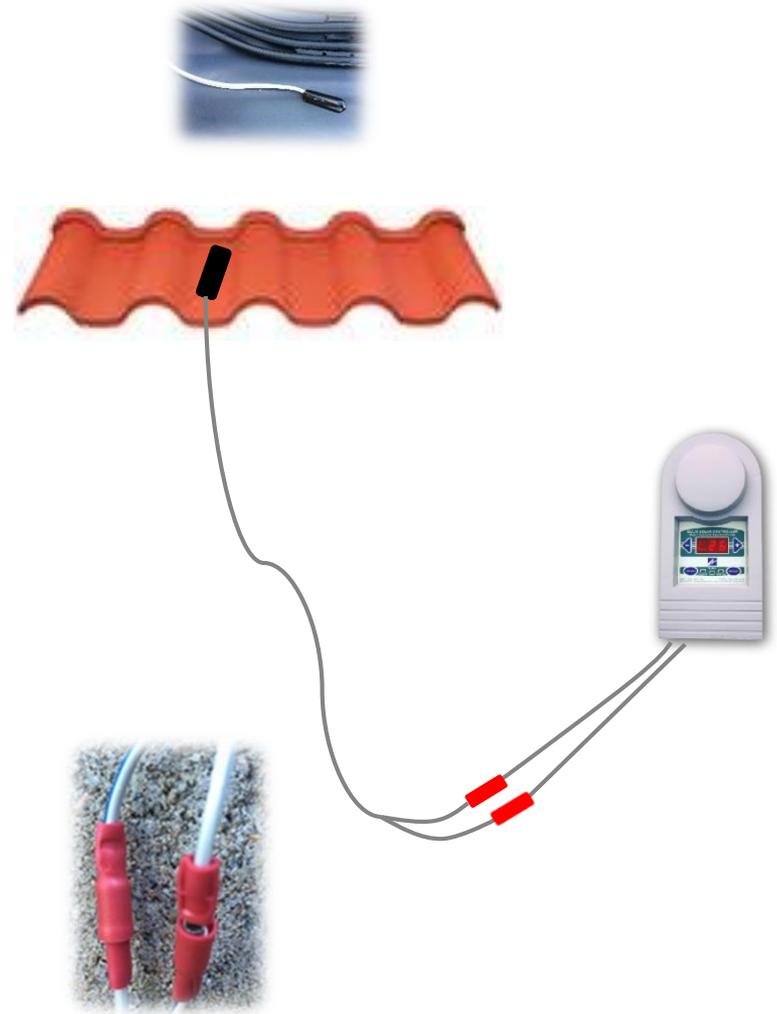
Do not place within direct splashing or spray from the pool.

INSTALLATION: ROOF SENSOR

⚙ Place the roof sensor on the roof and attach with silicone

⚙ Plug sensor cable into the unit using the red connectors

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INSTALLATION: POOL SENSOR

Solar Pump

⚙ Using the 12.5mm drill bit, drill a hole into the suction line of the solar pump.

⚙ Put the grommet in first, then push in the pool sensor.

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

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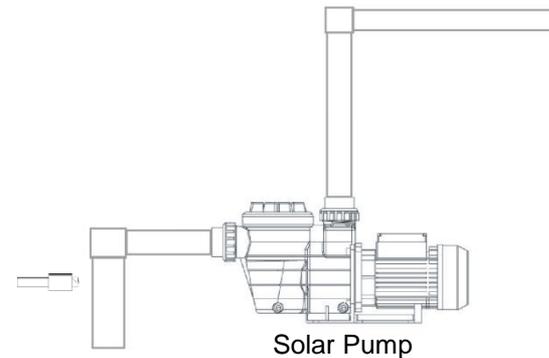
INSTALLATION:

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 and the solar pump synchronise (indicated by flashing light).
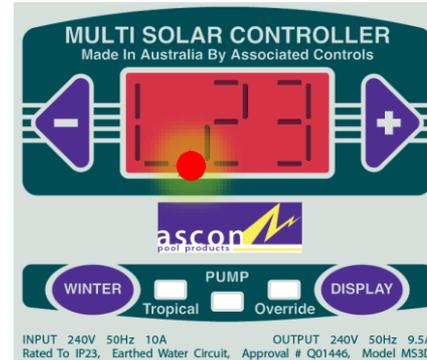
☼ After 2 mins the unit will run for at least 6 mins to reset the pool temperature sensor.

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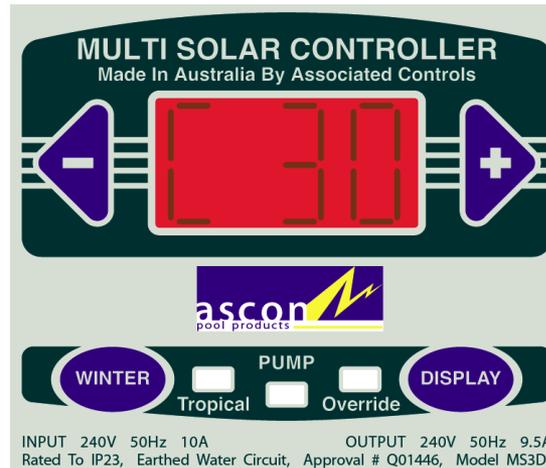
Press ► button to increase to maximum 40°C by 1°C increments.

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

OPERATION: DISPLAY MODE

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

☼ To read roof, pool and comfort temperature settings, press **DISPLAY**
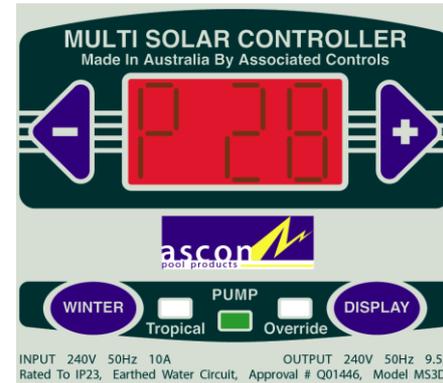
The unit will show:

r for roof

P for pool

L for last

C for comfort

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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WINTER   PUMP   DISPLAY
Tropical   Override

INPUT   240V   50Hz   10A   OUTPUT   240V   50Hz   9.5A
Rated To IP23,   Earthed Water Circuit,   Approval # Q01446,   Model MS3D

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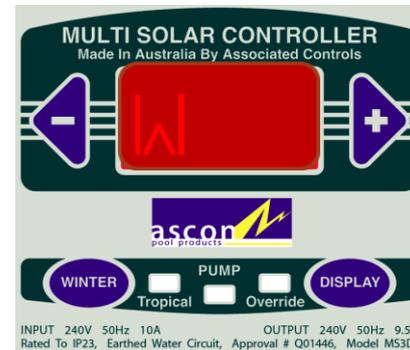
OPERATION: TROPICAL MODE

Tropical mode can be used to cool the users pool at night during very hot weather.

Press (WINTER) and (DISPLAY) together. When the Tropical LED is red, the Tropical mode is on.

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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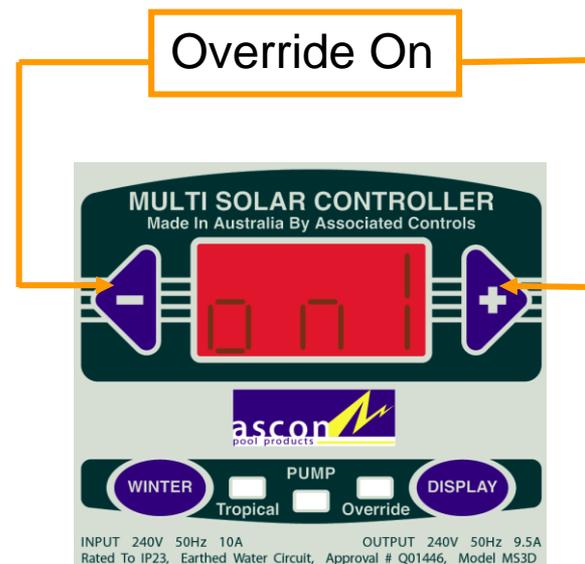
OPERATION: CALIBRATION

To calibrate the unit….

⚙ Press (WINTER) and ◄-
to calibrate the pool sensor
Display reads CAL then
+00 .
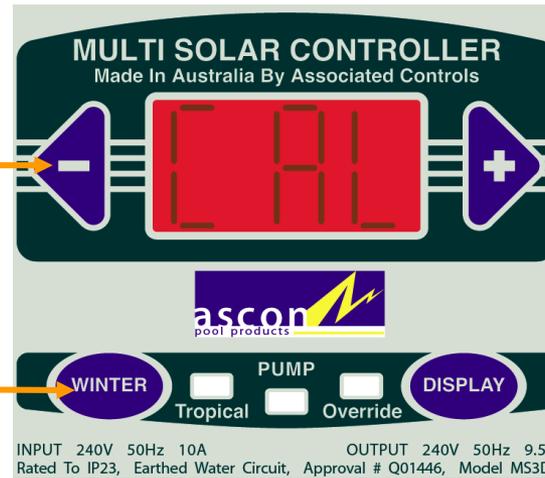
⚙ Press the ◄- or +► to offset
the temperature.

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CAL

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WINTER   **PUMP**   DISPLAY
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OPERATION: DIFFERENTIAL

The differential temperature is the amount of degrees between the roof and pool temperature.

The differential in temperature can be changed by pressing WINTER and + at he same time. The display reads dif then 06 press the - or + to increase or decrease.

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WINTER   PUMP   DISPLAY
Tropical   Override

INPUT 240V 50Hz 10A   OUTPUT 240V 50Hz 9.5A
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TROUBLE SHOOTING GUIDE

First check the obvious:
→ Is the power on?
→ Is everything connected?

Controller has no display on the screen → Check that the controller is plugged into the power point or chlorinator.
- Plugged in but still no power? Return for service.
- Controller is not plugged into power point or chlorinator → Plug controller into power point (for stand alone system) or piggy back socket (for an integrated system)

Controller has a display on the screen

→ Controller turns on pump at night
- Controller display shows 'w' → The controller is in winter mode; reset to normal operation by pressing the 'WINTER' button.
- There is a small red light above 'Tropical'. → The controller is in tropical mode; reset to normal by pressing the 'WINTER' and 'DISPLAY' buttons at the same time

→ Controller is showing error codes on display
- The display reading is 'PPP' → The pool sensor is faulty. Unplug both sensors at the red bullet connectors. → Swap the roof and pool sensors at the red bullet connectors.
  - If the display still reads 'PPP' the unit and the sensor need to be replaced or repaired.
  - If the display reads 'rrr' the pool sensor needs to be redplaced.
- The display reading is 'rrr' → The roof sensor is faulty. Unplug both sensors at the red bullet connectors. → Swap the roof and pool sensors at the red bullet connectors.
  - If the display still reads 'rrr' the unit and the sensor need to be replaced or repaired.
  - If the display reads 'PPP' the roof sensor needs to be replaced.
- The display reading is 'EEE' → The watch dog chip has been burnt out. Return for service.

→ The controller is 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
  - Pump is operating
  - No change? Return for service
- No. Plug the solar pump into the base of the controller. → Pump is operating

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

www.asconpool.com.au