



MWS
MULTI WIRELESS
SOLAR
CONTROLLER

INSTALLATION: INCLUDED



Wireless Solar Controller



Wireless Sensor with PV panel



Up pipe Sensor



Mounting kit and template

INSTALLATION: REQUIRED

6mm Masonry drill bit
(required for raw plugs)



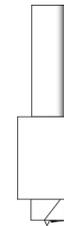
P-2 Phillips head
screw Driver



Silicone



Drill with hammer action



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

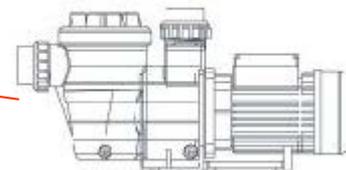
INSTALLATION: DO'S



3.5m



1.5m



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

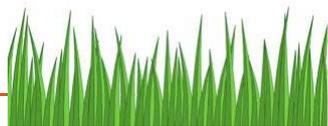


Unit **must** be mounted using screws provided.



1m

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



INSTALLATION: DO NOT'S!



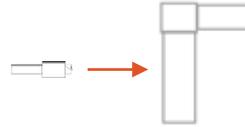
Do not immerse.
Do not place unit upside down.



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.
- ☀ Make sure the sensor is attached to the unit using the red connectors.



INSTALLATION: WIRELESS SENSOR & PV PANEL

- Using the silicon, attach the PV panel to the roof



- Drill 2 holes to mount the wireless sensor box (this needs to be within 70cm of the PV panel).



- Attach the sensor next to the box with silicon



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 MWS and the solar pump synchronise.
- ☀ After 2 mins the unit will run for at least 6 mins to reset the wireless sensor.



OPERATION: START UP



☀ When the unit is turned on, it has the following factory settings:

- Differential = 6°C
- Comfort Temperature = 30°
- The time will be AEST

SETUP DIFF
6°C

SETUP COMFORT
30°C

ASCON WIRELESS
V1.0 16:38:57

OPERATION: CLOCK SET UP

The clock is in 24hour time, and already set to AEST.

To change the time on the MWS



- Press Menu, then enter until the LCD display shows **SETUP CLOCK HOUR**

Then press UP to increase the hour or DOWN to decrease the hours



- Press enter again until the LCD display shows **SETUP CLOCK MIN**

Then press UP to increase the minutes or DOWN to decrease the minutes



- Press enter again until the LCD display shows **SETUP CLOCK SEC**

Then press UP to increase the seconds or DOWN to decrease the seconds



- Press ENTER until display shows **Save settings?**

Yes-ENTER No-MENU

Press ENTER to save the settings



OPERATION: COMFORT TEMP

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



- ☀️ Press MENU then press ENTER until the LCD shows **SETUP COMFORT**



- ☀️ Press UP button to increase the comfort temperature or DOWN button to decrease the comfort temperature

- ☀️ Press ENTER until display shows **Save settings?**
Yes-ENTER No-MENU
Press ENTER to save the settings



OPERATION: DIFFERENTIAL TEMP

The differential temperature is the difference in the temperature between the roof and the pool..



- ☀️ Press MENU then press ENTER until the LCD shows **SETUP DIFF**
- ☀️ Press UP button to increase differential or DOWN button to decrease differential
- ☀️ Press ENTER until display shows **Save settings?**
Yes-ENTER No-MENU
Press ENTER to save the settings



OPERATION: START & FINISH TIME

The time of the day that the unit will start and end operation during the day.
The default time is 8am to 6pm. (Unit operates in 24 hour time)



- ☀️ Press the MENU button then ENTER until the LCD shows **SETUP START TIME**
Use the UP and DOWN buttons to adjust the start time.

A close-up of the LCD display showing the text 'SETUP START TIME' on the top line and '08:00' on the bottom line.

- ☀️ Press the MENU button then ENTER until the LCD shows **SETUP END TIME**
Use the UP and DOWN buttons to adjust the finish time.

A close-up of the LCD display showing the text 'SETUP END TIME' on the top line and '18:00' on the bottom line.

- ☀️ Press ENTER until display shows **Save setting?**
Yes-ENTER No-MENU
Press ENTER to save the settings

A close-up of the LCD display showing the text 'Save settings?' on the top line and 'Yes-EnterNo-Menu' on the bottom line.

OPERATION: DISPLAY MODE

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

☀ To view the current settings of the Wireless Solar Controller, press the UP or DOWN button

☀ The unit will display:

UP current pool sensor temperature.

DN current roof sensor temperature.

PUMP indicates if pump is on or off.

LP for the last pool sensor temperature before the unit turned off

LR For the last roof sensor temperature before the unit turned off.

ERROR if there is a sensor error UP SENSOR or Roof.

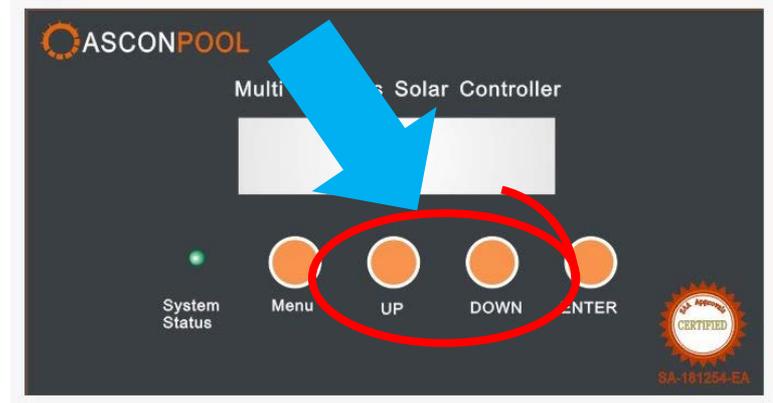
GID shows group ID (factory setting)

SID shows slave ID (factory setting)

RSSI shows wireless signal strength (should be higher than 20)

BAT shows wireless roof sensor power (should be higher than 2.1)

☀ Press MENU to exit the Display Mode



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 turn Winter Mode ON -
Press MENU, then the UP button until the LCD screens displays
SETUP WORK MODE:
WINTER



- At the start of the season, To turn Winter Mode OFF -
Press MENU, then the UP button until the LCD screens displays
SETUP WORK MODE:
AUTO



- Press ENTER until display shows
Save setting?
Yes-ENTER No-MENU
Press ENTER to save the settings



OPERATION: OVERRIDE / MANUAL

Before selecting Override or Manual, remember that the unit is designed to work automatically. Manual ON or Manual OFF mode can result in overheating or even cooling if the solar system continues to run.



- ☀ To select MANUAL ON TIME, press MENU then ENTER until the display shows **MANUAL ON TIME**
1 HOUR

A close-up of the LCD display showing the text 'MANUAL ON TIME' on the top line and '1 HOUR' on the bottom line.

- ☀ Press UP button to increase or DOWN button to decrease

- ☀ To select MANUAL OFF TIME, press MENU then ENTER until the display shows **MANUAL OFF TIME**
1 HOUR

A close-up of the LCD display showing the text 'MANUAL OFF TIME' on the top line and '1 HOUR' on the bottom line.

- ☀ Press ENTER until display shows **Save setting?**
Yes-ENTER No-MENU
Press ENTER to save the settings

A close-up of the LCD display showing the text 'Save setting?' on the top line and 'Yes-ENTER No-MENU' on the bottom line.

OPERATION: CALIBRATION

To calibrate the sensors

- ☀ To calibrate the up sensor
Press MENU then ENTER until the display shows
SET UP-SENS CALI
0°C
- ☀ Press UP button to increase or DOWN button to decrease
- ☀ To calibrate the roof sensor
Press MENU then ENTER until the display shows
SET DOWNSENS CALI
0°C
- ☀ Press UP button to increase or DOWN button to decrease
- ☀ Press ENTER until display shows
Save setting?
Yes-ENTER No-MENU
Press ENTER to save the settings



SET UP-SENS CALI
0°C

SET DOWNSENS CALI
0°C

Save settings?
Yes-EnterNo-Menu

For further information, please refer to the
Instruction Manual



www.asconpool.com.au