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UK
English

EVOLUTION
AQUA

switchbox



INSTALLATION AND OPERATING MANUAL FOR ALL EVOLUTION AQUA SWITCHBOX MODELS SWB•5 | SWB•5P | SWB•5P+PG

WARNING:

Ensure that the Evolution Aqua Switchbox is **switched off** at the mains before you attempt to conduct any type of maintenance on the Evolution Aqua Switchbox.

WARNING: PLEASE READ THE FOLLOWING SAFETY INFORMATION FIRST.

IMPORTANT SAFETY INFORMATION

- Please Read Carefully

- Always consult with a qualified electrician before attempting any electrical installation.
- Always isolate the unit from mains electricity supply before carrying out any maintenance.
- Use in the area of the garden pond only if the installation complies with the relevant wiring regulations.
- Power must be supplied through a Residual Current Device (RCD) with a residual operating current not exceeding 30mA.
- This unit must be earthed. Never use a fuse larger than 3 amps on the power lead.
- The unit must not be submerged in water.
- Young children should always be supervised near water.



IN THE EVENT OF A POWER FAILURE

- Following a power failure, the switchbox will restart with each line in the same position as before the power interruption. Both programmable models will resume as per its programming. However, in order for all of this to occur the switchbox must be run for a minimum of 1 hour with uninterrupted power to enable the back up battery to be fully charged.

This function is for short term power cuts only. Long term power outages will result in all models needing to be re-programmed.



PRODUCT INFORMATION

- Model Ratings:

220-240V. 5 LINES. 1500 W MAX POWER PER LINE.
7500 W MAX TOTAL OUTPUT.



- All units are IP56. All units are CE approved.

Disposal Of Your Old Product

Your product is designed and manufactured with high quality material and components, which can be recycled and reused. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC. Please contact your local authority about correct disposal for electrical and electronic equipment. Our WEE Registration Number is WEE/FE1471RR.



Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

INTRODUCING THE EVOLUTION AQUA SWITCHBOX RANGE

Congratulations on purchasing your Evolution Aqua Switchbox.

The Evolution Aqua Switchbox range comprises of 3 models:

- **SWITCHBOX**

5 Way Switchbox (SWB•5) - Offering up to 5 lines of power up to 1500 W per line. Each connected device can be manually powered on or off at the touch of a button.

- **SWITCHMASTER**

5 Way Programmable Switchbox (SWB•5P) - Offers 5 lines of power each delivering up to 1500 W per line. Every device that gets connected can be individually programmed to power on or off at your convenience.

- **SWITCHMASTERPRO**

5 Way Programmable Switchbox Plus PumpGuard (SWB•5P+PG) - This model offers all the flexibility and security you need from a 5 way programmable switchbox, with the added benefits of **PumpGuard™** and a **power consumption monitor**.

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EVOLUTION AQUA SWITCHBOX OVERVIEW

Evolution Aqua's range of **quality, high performance** switchboxes manage all the electrical needs required in the garden and pond environment.

Evolution Aqua Switchboxes are ideal for controlling all types of water garden appliance. They give owners an extra level of **freedom** and **protection** by enabling up to 5 devices, such as pumps, filters, skimmers, fountains and lights to all be programmed and controlled by one single control unit.

WHAT IS PUMPGUARD™? (SWB•5P+PG MODEL ONLY)

PumpGuard™ is patent-pending, smart technology that helps to avoid possible disasters occurring when your pump blocks or overloads.

Line 1 of every Evolution Aqua **Switchmaster PRO** is set to automatically **“learn”** how a pump behaves when it is first connected up and running normally.

Once the learning process is over **PumpGuard™** goes into monitoring mode. It's just looking out for your pump showing signs of overloading or cutting out, **all day every day**.

A pump that constantly keeps restarting can easily burn itself out. **PumpGuard™** detects this situation and will run the pump on a lower intensity program to see if this will correct the problem. If a solution cannot be found, **PumpGuard™** will disconnect the power and save your pump from damaging itself further. In this situation **PumpGuard™** sounds a stop alarm (the signal for a stop alarm is a faster beeping sound plus a red LED on Line No. 1) and the display shows “Pump fail”.

PumpGuard™ is integrated into the top of the range **Switchmaster PRO**.

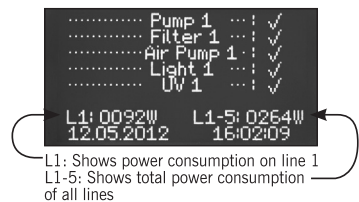
POWER CONSUMPTION MONITOR (SWB•5P+PG MODEL ONLY)

Evolution Aqua **Switchmaster PRO** switchboxes feature a power consumption monitor.

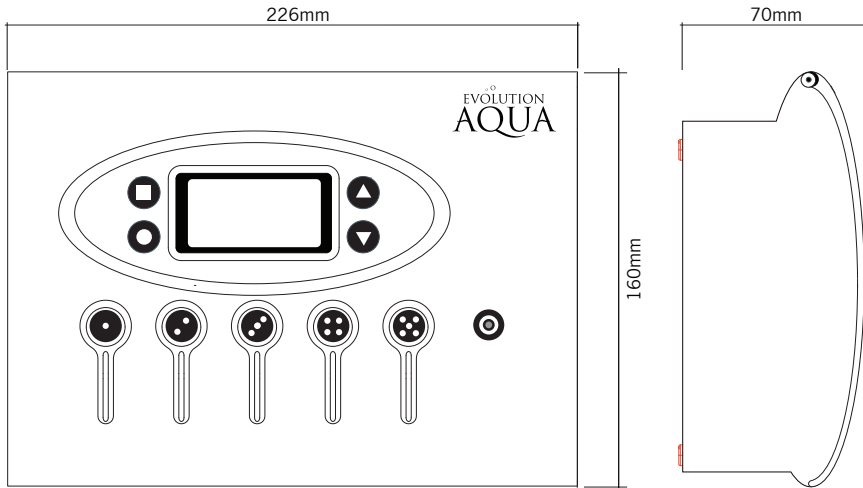
The digital read out on the screen gives two electrical consumption readings. The **Switchmaster PRO** gives a constant read out of the device connected to line 1. The second reading is the total consumption being used by **all** devices switched on through lines 1 to 5.

To get a reading for an individual device, simply switch every line off except the line you want to monitor.

The consumption monitor gives an indicative reading, with an accuracy of $\pm 5\%$.



DIMENSIONS



SPECIFICATION

	5 Way Switchbox	Switchmaster 5 Way Programmable Switchbox	Switchmaster PRO 5 Way Programmable Switchbox with PumpGuard™
Output	220 / 240 V	220 / 240 V	220 / 240 V
Max. Power Per Line*	1500 W	1500 W	1500 W
Max. Total Output	7500 W	7500 W	7500 W
Programmable	-	✓	✓
PumpGuard™	-	-	✓
Number of Lines	5 Lines	5 Lines	5 Lines
Model Number	SWB•5	SWB•5P	SWB•5P+PG
Internal Fuses	6.3A G-Fuse 5mm x 20mm		

*1500 Watts per line when installed into the mains household electrical wiring using appropriate cable.

PLEASE NOTE: Maximum total output of 7500 Watts through the switchbox can only be achieved when connection to the power source is made using armoured cable, maximum diameter of 13mm.

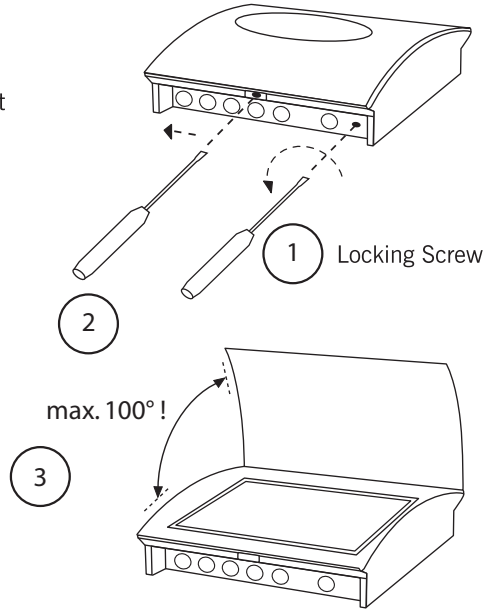
INSTALLATION



WARNING: ALWAYS TURN THE SWITCHBOX POWER OFF AT THE MAINS ELECTRIC BEFORE OPENING THE COVER. ALWAYS SECURE WITH CLOSING SCREW.

OPENING THE COVER

To open the cover, undo locking small screw using a screwdriver (1). Insert a small screwdriver or similar implement into the round opening at the base of the cover. Use it to push the fastening connection towards the left until the catch is released. (2) Gently lift the cover open to the maximum angle of 100 degrees (3). **DO NOT** force the cover to open further.



INSTALLATION

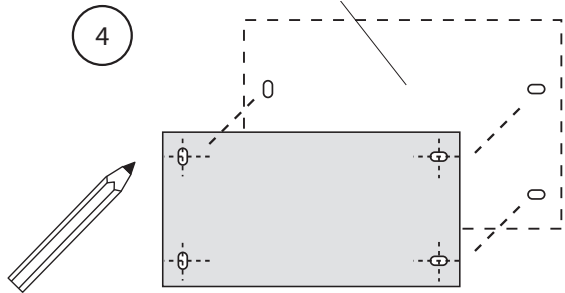


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MOUNTING THE BOX

Place the box against the wall to ensure that the wall surface is flat. Use the template provided on the quick guide to mark out the position of the box and the location of the four screw holes on the wall (4).

Drill suitable holes (and insert rawl plugs if needed – not supplied) into the wall at the four marked points using the template provided – the switchbox must be mounted level and with the long hinge at the top. Use a cross-head screwdriver (not supplied) to fasten four screws through the base of the switchbox into pre-drilled holes. Check that the switchbox is level to ensure that the cover will close properly.



INSTALLATION

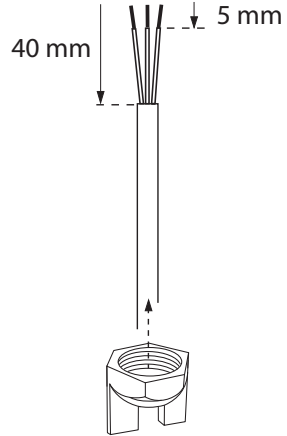


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CONNECTING THE CABLES



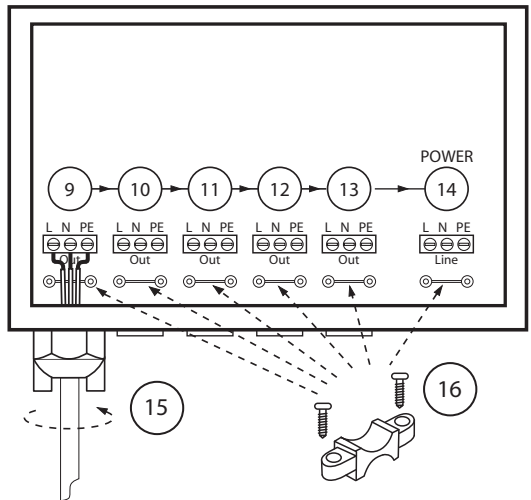
WARNING! Please refer to the important product information supplied with your switchbox for safety notices. It is essential for your safety that you ensure the power of all inputs (including mains) is turned off before proceeding with installation. Do not attempt to install cables without required knowledge and expertise! Use of a qualified electrician is recommended for all installations.



IMPORTANT: Connect the wires to the appropriate pins (Live, Neutral, Earth). Up to five outgoing connections can be installed into the switchbox (9-13). Power input is supplied into a separate mains channel (14).

Use two screws to secure the cable grip and fix each cable into place inside the switchbox (16). Outside the switchbox, if using the supplied cable gland sealing ring, ensure the cable gland sealing ring is turned clockwise until the cable is firmly secured and sealed in the connector (15).

To child-proof / lock the switchbox, close the cover and fasten with the screw supplied into the locking aperture located at the base of the cover, on the right-hand side (17).



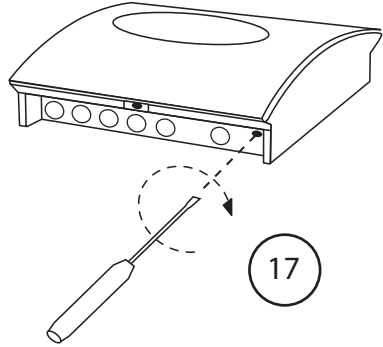
INSTALLATION



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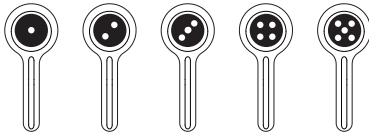
FINISHING CONNECTIONS

Once you have connected all of your appliances, always secure the lid with the closing screw (17).



ACTIVATING CONNECTED APPLIANCES

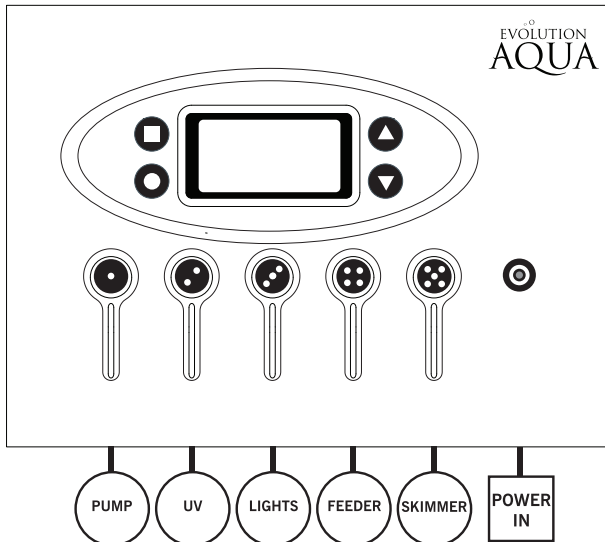
To activate each appliance, simply press the corresponding on / off button on the front of the switchbox.



LINE 1 LINE 2 LINE 3 LINE 4 LINE 5

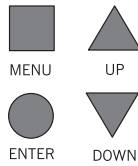
For more detailed programming instructions see page 10.



EXAMPLE OF A COMPLETED INSTALLATION












PROGRAMMING (SWB•5P and SWB•5P+PG models only)

The switchbox programming buttons are:







After starting the power supply there is a short delay while the system starts up. Once the screen has turned on, press the **Menu**  button to display the programming menu. To return to the main menu at any point press **Menu** .





TO PROGRAM THE DATE AND TIME




To program the date and time use **Down** , **Up**  and **Enter**  to select the clock icon. Select date in the format DD/MM/YYYY and 24hr clock as displayed. To change the date and time, use **Up**  and **Down**  to change number displayed. Confirm selection with **Enter**  and move on. Press **Menu**  at any point to move back. When you have finished programming the date and time, press **Enter** , and press **Menu**  to return to normal screen

TO PROGRAM A LINE

Press **Menu**  to get to the programming menu. The five lines are automatically labelled 1-5. Use **Up**  and **Down**  to select a line and press **Enter** .

Choose a device description with **Up**  and **Down**  through device options. The line will be renamed with selected device name. Press **Enter**  to select one.

Each line can have up to five different program time slots which are labelled “a” through to “e”. Use **Up**  to turn a program slot on: a check mark will appear to show that a program slot is being set. Press **Enter**  to proceed to set ‘on’ and ‘off’ times with **Up**  and **Down** .

Use **Menu**  at any point to move back through the options. When you have finished programming, press **Enter**  to scroll through the remaining program slots and return to the **Menu** .

The screen will display ✓ to confirm that program slot changes have been recorded. When a line program slot becomes active, the light on the switchbox cover will turn on to show that power to that line is on.

TO EDIT OR DELETE A PROGRAM SLOT

Press **Menu**  to enter the programming menu. Select the line you want to change using **Up**  and **Down** . Press **Enter** .

PROGRAMMING (SWB•5P and SWB•5P+PG models only) (continued)

If required, use **Up** ▲ and **Down** ▼ to change the name of the device. Press **Enter** ●. Press **Enter** ● to scroll through the program settings and press **Up** ▲ and **Down** ▼ to edit times.

If you need to delete a program slot, move the cursor back to highlight the program slot check mark and press the **Up** ▲ button. The check mark and settings for the program slot will disappear to show that the program slot has been de-activated.

When you have finished programming, press **Enter** ● to scroll through the remaining options and press **Enter** ● again to return to the **Menu** ■. The screen will display ✓ to confirm that program slot changes have been recorded.

USING THE PUMPGUARD FEATURE ON SWITCHMASTER PRO MODELS (SWB•5P+PG Models Only)

PumpGuard is a feature that applies to Line 1 only. *(See page 4 for more info on PumpGuard.)*

When installing a pump for the first time or when replacing an existing pump (even if it is the same make and model) follow the procedure:

1. Connect the pump to the switchbox on Line 1 and ensure that the pump is switched on.
2. Press **Menu** ■, then press **Down** ▼ 5 times.
3. Now press **Enter** ● to bring up the PumpGuard screen.
4. Press **Up** ▲ once to highlight "New Pump" on the screen.
5. Then press **Enter** ● to allow the SwitchMaster Pro to accept the new pump.
6. Press **Menu** ■, 2 times to get back to the main menu.
7. PumpGuard will now run through its set-up procedures.

Following a PumpGuard warning, check your pump for faults, and when cleared you need to reset PumpGuard. To reset PumpGuard:

- Follow points 1 to 3 (shown above) to get to the PumpGuard screen.
- Highlight Clear and press **Enter** ●.
- Return to Main Menu by pressing **Menu** ■ 2 times.

POWER SAVING MODE

On SWB•5P and SWB•5P+PG models the screen will remain illuminated and active during programming or when the functions of the box are being accessed. If no buttons have been pressed for 5 minutes the screen will go into **power saving mode**. To re-activate the screen press **Menu** ■ at any time. The screen will also become active if any of the lines are switched on or off.

On the SWB•5P+PG model, should an issue occur that means PumpGuard becomes active, then the screen will light up and the line 1 switch will turn red until the necessary action to correct the issue has been taken.

WARRANTY



Your Evolution Aqua Switchbox is designed to give you many years of trouble free use when operated under normal conditions. Your switchbox is covered against defects in manufacture and materials for a period of 2 years, subject to the following conditions;

- The Switchbox must be installed, operated and regularly maintained in accordance with the instruction manual.
- Any repairs or spare parts fitted during the warranty period must be undertaken by Evolution Aqua Ltd or its authorised representatives.
- It is the customer's responsibility to return the switchbox, at their cost, together with a valid proof of purchase, along with a brief description of the fault and any other relevant information, to the place of purchase.
- Evolution Aqua will not be liable for the costs of returning the switchbox, and accepts no responsibility for damage during transit or consequential loss relating to this.
- Before contacting Evolution Aqua for any warranty information, you must first contact your place of purchase.

Evolution Aqua or its appointed agents, will examine the switchbox, and if the fault is covered by the warranty, will repair or replace the switchbox, whichever is applicable.

This warranty does not extend to replacement of internal fuses.

Evolution Aqua will not guarantee the switchbox:-

- When the fault is due to misuse or when unauthorised repairs have been attempted.
- When the fault is due to fire or any other natural cause, including frost damage.
- This warranty is not transferable.

Evolution Aqua Ltd. accepts no responsibility or liability for any consequential loss caused by or arising from the use of any Evolution Aqua products. Therefore, any dispute arising from the provisions of the warranty will be dealt with under the laws of England and Wales subject to the exclusive jurisdiction of the English Courts.