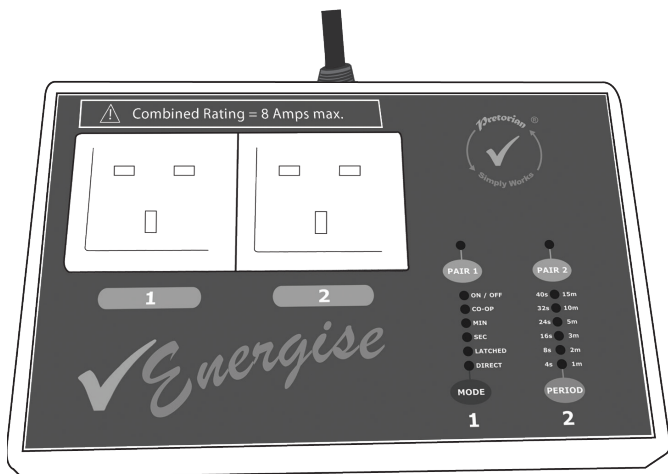




Simplyworks[®] INSTRUCTIONS

**New
Features
Added**

ENERGISE



Product Description

A feature rich mains controller allowing switch users to control up to two electrical appliances with wired or wireless switches.

ENERGISE includes SimplyWorks[®] wireless technology, allowing interference free activation of appliances at up to 10 metres.

Six selectable modes enable the user to choose how, and for how long, the appliance(s) will be turned on.

Four modes give independent switch and appliance activation: two further modes provide co-operative control of both appliances.

ENERGISE will accept any wired switch or the SimplyWorks[®] SWITCH 125, SWITCH 75, SEND; or any combination of these.



ENERGISE



IMPORTANT SAFETY INSTRUCTIONS. FAILURE TO COMPLY COULD RESULT IN PERSONAL INJURY.

- Read and pay heed to these instructions and retain for future reference.
- Do not use this unit near water.
- Unit is intended for indoor use only.
- Regularly examine the unit for any signs of damage, particularly to the power cable and the appliance sockets. Do not use the unit if any damage is found.
- Do not attempt to force incompatible plugs into the appliance sockets or to defeat any protective shutters.
- The device may be disconnected at any time by unplugging from the mains supply to which it is attached. Keep the unit sufficiently close to the supply so that disconnection can be effected quickly in the event of an emergency.
- The unit is not an electrical isolation means. You should treat the appliances connected to the unit as capable of being energised at any time, even unexpectedly. Ensure that appliances are unplugged from the unit before attempting any operation which may constitute a hazard, even if the appliance is not energised.
- Do not disassemble, and do not attempt to replace a worn or damaged power cable. Refer to an authorised distributor or the manufacturer for all repairs.
- An 8 Amp fuse is fitted at the rear of the unit. The dimensions of the fuse are 20mm x 5mm diameter. Do not replace this with a fuse of a higher rating under any circumstances.
- A 0.2 Amp fuse is also fitted to the circuit board. In the unlikely event that this needs to be replaced, refer to qualified servicing personnel.
- Do not use the unit near to sources of flammable gasses or in an explosive atmosphere.

Features

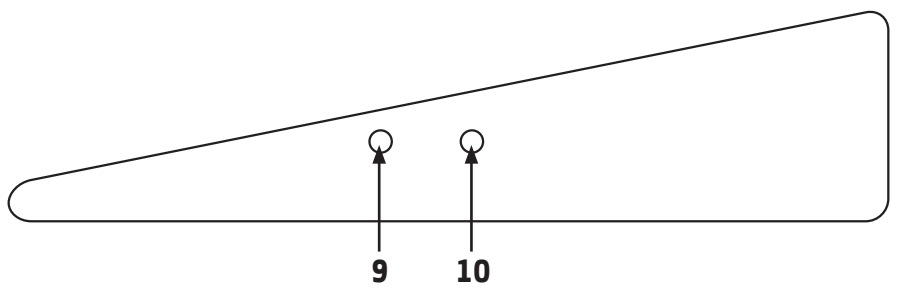
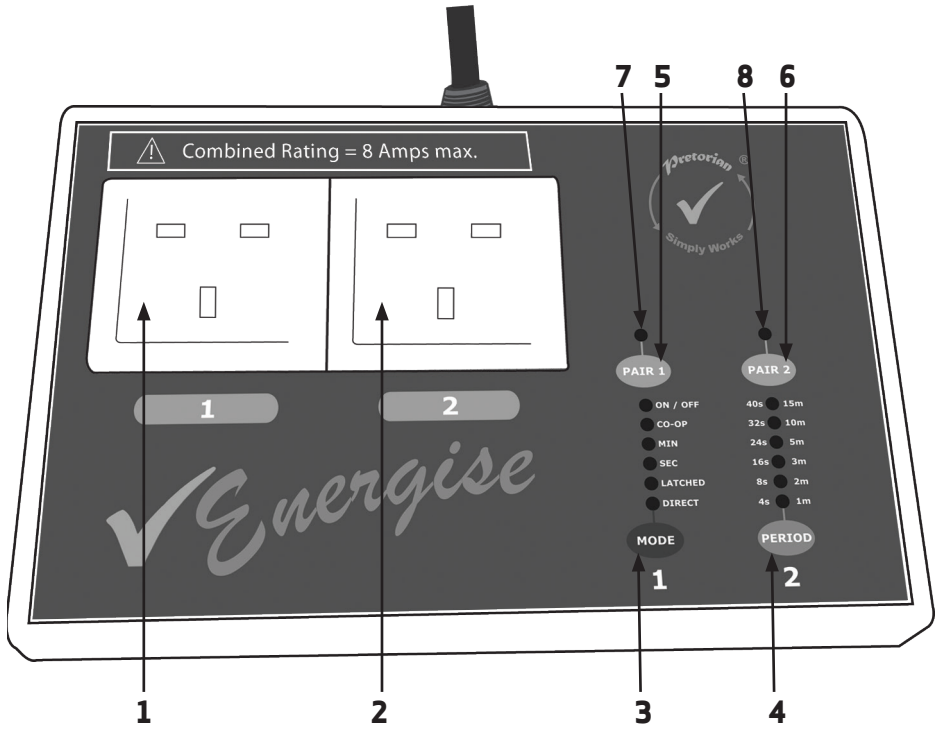
- Six selectable control modes. Four modes provide independent switch operation; two further modes provide co-operative switch operation.
- Independent switch operation in Direct, Latched, Timed Minutes and Timed Seconds modes.
- Co-operative switch operation in Co-Op and On/Off modes.
- Up to three wireless switches and one wired switch may be connected to each channel.
- Two 230V, 50Hz sockets.
- Two 3.5mm switch input sockets.
- Interference free operation at up to 10 metres distance with SWITCH 125 and SWITCH 75.
- Operates with wired or wireless switches; or a combination of both.
- LEDs for pairing SWITCH 125 and SWITCH 75 and selecting control modes and time settings.
- On-board memory retains the previous mode and time settings even after power-off.

Control Modes

- **DIRECT:** The appliance operates when at least one switch is pressed and deactivated when all switches are released.
 - **LATCHED:** pressing any switch turns the appliance on, pressing any switch again turns the appliance off*.
 - **TIMED MINUTES:** allows the appliance to operate for a preset period of time from 1 to 15 minutes. Subsequent presses of any switch do not extend the timer period.
 - **TIMED SECONDS:** allows the appliance to operate for a preset period of time from 4 seconds to 40 seconds. Subsequent presses of any switch do not extend the timer period.
 - **CO-OP** (requires at least one switch to be paired/connected to both channels). Both appliances operate when at least one switch on each channel are pressed simultaneously. Both appliances cease operating whenever all switches are released on either channel.
 - **ON/OFF** (requires at least one switch to be paired/connected to both channels). Both appliances operate when at least one channel 1 switch is pressed and both cease operating when at least one channel 2 switch is pressed.
- * Some toys may incorporate a Latched Mod In this case we recommend you turn off Latched Mode on **CONTROL PRO**.

Quick Set -Up

- 1 Plug the **ENERGISE** cable into any standard mains socket.
- 2 Plug appliance(s) into the appliance socket(s) [1]/[2] and turn the appliance(s) on.
- 3 Either attach any wired switch into the corresponding socket(s) [9]/[10] at the side of **ENERGISE** or, to operate with wireless switches, pair **SWITCH 125** or **SWITCH 75** to **ENERGISE**.
- 4 Press and hold the switch(es) and the appliance(s) will operate.



Pairing with Wireless Switches

Place **SWITCH 125** or **SWITCH 75** close to **ENERGISE** and briefly press Pair 1 button [5] on **ENERGISE**. Pair LED 1 [7] will flash slowly. Immediately press the Pair button on the wireless switch. Pair 1 LED will continue to flash slowly until pairing is complete when the LED will light steadily for 5 seconds.

You can pair up to three wireless switches with each channel of **ENERGISE**, allowing collaboration between several users. If you attempt to pair a fourth switch, the switch that was used least recently will be replaced with the new one. The other two switches are unaffected.

Repeat the procedure to pair further wireless switches with pair 2 button [6] on **ENERGISE**. Pair LED 2 [8] will flash during the process.

The procedure to pair **SEND** with **ENERGISE** is exactly as for **SWITCH 125/SWITCH 75**; or any combination of these.

Whenever **ENERGISE** receives a wireless transmission, the Pair LED [7]/[8] blinks as an acknowledgement. This is useful when finding which switch is paired with a particular channel.

If at any stage you would like to clear the pairing on either channel, press and hold its respective pairing button [5/6] until the pairing LED [7/8] flashes rapidly. The pairing information for all three switches will be erased, allowing you to start over.

Output Status

The Pair LEDs also indicate the status of the output channels [1]/[2]. If channel 1 is activated, Pair LED 1 [7] lights and if channel 2 is activated, Pair LED 2 [8] lights. The LEDs still blink briefly if a wireless transmission is received.

Control Modes

ENERGISE has six modes of control, four of which can be used with either one or two switches, and two modes which require two switch operation.

One or two switch modes:

- **DIRECT**: the appliance activates while any switch is held down and stops when all switches are released.
- **LATCH**: one press activates the appliance the next press stops the appliance.
- **TIMED SECONDS**: one press turns the appliance on for the number of seconds selected.
- **TIMED MINUTES**: one press turns the appliance on for the number of minutes selected.

NOTE: In the above modes, when using two switches and two appliances, the operating modes may be different for each of the two channels e.g. one appliance operating in **DIRECT** mode and one appliance operating in **TIMED SECONDS**.

Two switch modes:

- **CO-OPERATIVE**: At least one switch on each channel must be held down for both appliances to operate.
- **ON/OFF**: Pressing any switch on channel 1 turns both appliances on; pressing any switch on channel 2 turns both appliances off.

Selecting Control Modes

To view the settings for channel 1, press the 1/Mode button [3] briefly and the LEDs will light up to indicate the current mode and period settings. Note that the Pair 1 LED [7] lights to show that these are the settings relating to channel 1. If no changes are made after 5 seconds, the LEDs are automatically extinguished. Similarly, to view the settings for channel 2, press 2/Period [4] briefly. The Pair 2 LED [8] lights to show that these are the settings relating to channel 2.

To make changes to the settings, press either the Mode [3] or Period [4] button while the LEDs are lit for the relevant channel.

Note that if either channel is set to Co-Operative or On/Off modes, the other channel will automatically be changed to the same setting since both channels are required for these modes. When leaving either of these modes, the other channel is set back to its previous setting.

Settings are saved when the LEDs are extinguished and are retained even whilst the power is off.

Turning Outputs Off

If a channel is set to a timed mode, the period for which the appliance is energised may be ended prematurely by pressing either the Mode [3] or Period [4] buttons briefly.

Safe Operation



Your safety, and that of the people around you, is of paramount importance. Please read these guidance notes to ensure that the unit, and the appliances that are connected to it, are operated in a safe manner.

- Ensure you are familiar with the appliances you plug into **ENERGISE** by reading their operator's manual and/or using them separately to begin with.
- If an appliance can cause injury due to rotating parts, sharp blades or similar,
 - unplug it from **ENERGISE** before exposing the parts which might cause injury. For example, unplug a food processor from **ENERGISE** before lifting the lid.
 - Remember that lamps create heat when energised. Ensure that they are not

- close to any combustible material and that they are not accessible to touch.
- Power cables can be a trip hazard- ensure they are kept off the floor. Do not allow cables to hang over the edge of a work surface where small children can pull on them.
- Wherever possible, keep **ENERGISE** out of sight of the user since it can be a dangerous distraction from the tasks being taught.
- Whilst **ENERGISE** uses state of art wireless technology to communicate with wireless switches, it is still possible for appliances to be energised unintentionally. Ensure the unit is switched off when not in use.
- Never operate the unit near to water.
- Never open the unit or attempt any kind of repair.

Maintenance

Before undertaking any cleaning or inspection unplug **ENERGISE** from the mains supply.

Periodically check the unit to ensure there is no damage to the cable.

Do not use **ENERGISE** if the cable has been damaged or the unit is wet.

Clean using a dry cloth, never immerse in water or spray water or other liquids on to the unit.

Never carry **ENERGISE** by its power cable.

ENERGISE has no user serviceable parts. If repair is necessary the unit should be returned to Pretorian Technologies Ltd or an authorised distributor.

Technical Specification

Input/Output Power:

UK and Europe: 230Vac, 8A*, 50Hz

USA: 120Vac, 8A*, 60Hz

** refers to the total of all connected appliances.*

Fuse ratings:

UK: Fused at 10A in plug. Panel fuse on rear of unit = 8A, 20mm x 5mm diameter.

Europe: No fuse in plug. Panel fuse on rear of unit = 8A, 20mm x 5mm diameter.

USA: No fuse in plug. Panel fuse on rear of unit = 8A, 20mm x 5mm diameter.

All units: PCB protection fuse = 0.2A slow-blow TR5 type (in socket- no soldering required).

Never exceed the fuse ratings quoted above. If in doubt refer to qualified service personnel. PCB protection fuse must always be replaced by qualified service personnel.

EMC Compliance

ENERGISE has been tested to, and is in compliance with, the following EU standards:

EN60601-1-2

EN55022

EN6100-4-3

EN6100-4-2

Warranty

ENERGISE is warranted for 24 months from the date of purchase against defects in manufacture or component failure. The unit is designed for use in domestic, educational, health and commercial applications. Use outside these areas will invalidate the warranty.

ENERGISE is not authorised for use with safety critical, mission critical or life/health sustaining apparatus of any kind.

Unauthorised repair or modification, mechanical abuse or immersion in any liquid will invalidate the warranty.

Troubleshooting

Symptom	Possible Cause	Remedy
No power to ENERGISE	<ul style="list-style-type: none">• Not plugged into wall socket• Wall socket not functioning• Fuses in ENERGISE blown	<ul style="list-style-type: none">• Plug unit in!• Check household fuses/ circuit breakers. Replace or reset if necessary.• Check 8A fuse at rear of unit. In UK units check 10A fuse in plug. Replace if necessary. Check 0.2A circuit board protection fuse. This should be carried out by qualified service personnel.
Wired switch does not operate appliance	<ul style="list-style-type: none">• Switch lead broken• Switch not plugged into correct socket• Unit is set to Co-operative mode• Appliance not functioning• Appliance has its own power switch• Another switch on the same channel is already pressed	<ul style="list-style-type: none">• Test with Pretorian Test-IT and replace if necessary• Change to correct socket• Change to another mode• Plug into a separate wall socket to test. Replace if necessary.• Ensure that switch is set to on.• Release the switch
Wireless switch does not operate appliance	<ul style="list-style-type: none">• Switch not paired (watch for Pair LED blinking).• Unit is set to Co-operative mode• Appliance not functioning• Appliance has its own power switch• Another switch on the same channel is already pressed	<ul style="list-style-type: none">• Follow pairing sequence for required channel.• Change to another mode• Plug into a separate wall socket to test. Replace if necessary.• Ensure that switch is set to on• Release the switch
Appliance does not turn off using switch	<ul style="list-style-type: none">• Unit may be set to a timed mode.• Unit may be set to On/Off mode.• Another switch on the same channel is already pressed	<ul style="list-style-type: none">• Check mode setting and change if necessary.• Check mode setting and change if necessary.• Release the switch