

Light Symphony

2-channel Wireless Receivers

2-Channel Lighting Control Module



Features

- IP66 Tuff ABS enclosure
- Compatible with all lighting types
- Output 1 rated 1000W* Switched or Dimmable
- Output 2 rated 1000W* Switched or Dimmable
- Earth bonding metal chassis
- Operates wirelessly requires only a mains supply
- Rugged, separately fused outputs
- Fast, *Lid-On* programming

Part No. LS30500LCM

Description

The Lighting Control Module provides 2 wirelessly controllable outputs rated at 1000W each, suitable for all load types. It provides flexible control for any lighting circuit or pump and is quickly configurable as a simple switch, group (zone) or scene controller, with 29 memories and a master on/off.

Each output can be configured for switching or dimming. The dimming mode provides a smooth on/off feature with filament pre-heating to greatly increase lamp life. By default, Output 2 provides smooth on/off but is not user-dimmable; user-dimming can be enabled on output 2 if the load is under 500W on both outputs.

The separately fused outputs are fully protected against over current and over temperature. Large 10mm² cable terminations, standard (20mm) gland cut-outs and an earth bonded gland-chassis simplify installation.

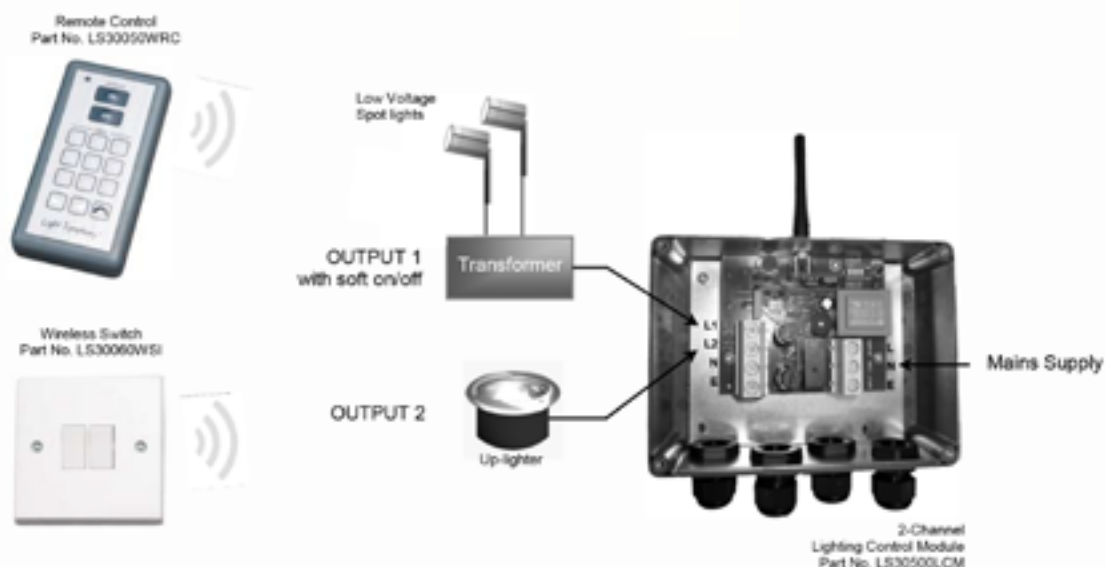
The built-in signal-strength indicator, zero-volt mains switching and power-on surge protection all enhance reliability. Lid-on programming speeds commissioning and reduces the risk of water ingress during installation.

Specification

Range	-	1000 metre wireless range line-of-site
Enclosure	-	IP66, UV stable, ABS plastic with non-penetrating wall-mounts translucent lid & neoprene o-ring. Colour RAL7011
RF	-	434.075MHz Narrow Band FM
Coding	-	Security channels 1–32
Power	-	Supply: 230VAC +/-10% 50Hz Standby <1W. Output 1 Triac (Leading Edge) rated 1000W Output 2 Triac + Relay rated 1000W with zero-volt switching * Limit power to 500W each channel when user-dimming enabled on output 2
Size	-	225 x 185 x 85mm
CE Compliance	-	EN 50081 – 1, To EN 50082 – 1

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Application Example



How to use it

The Lighting Control Module (LCM) 'hears' the wireless commands from any of Light Symphony's 1000meter controllers, such as the remote control or wireless wall-switch pictured above. The Garden On/Off button will switch all outputs together, providing a convenient master control. Each output can also be separately assigned to 'Areas' (1-29), to provide individual control.

An internal switch enables dimming and the smooth on/off feature.

For larger systems, limitless LCM's may be used together to create flexible lighting zones or scenes.

If a base-station is installed, it will also hear commands from the remote control or wall-switch and echo them. The Lighting Control Modules will 'hear' both signals, significantly increasing the range and reliability.

Accessories

Mounting Spike Kit

A pair of adjustable-length, galvanised, steel spikes can be fitted to the Lighting Control Module in place of the supplied wall fixings to provide a convenient ground mounting method.



Part No. LS30010SPK

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CONFIGURATION SWITCHES

SW1 SIGNAL STRENGTH INDICATOR

Causes the power LED to blink when a remote control key is pressed to indicate signal-strength. A slow blink shows a weak signal, a fast blink or no flashing indicates a strong signal.

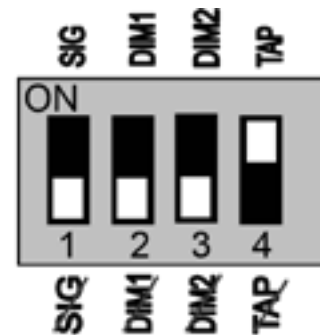
(SW1 can be used to keep the power LED off when in standby)

SW2 -3 DIMMING

Enables dimming and soft on/off for outputs 1 and 2 respectively. When dimming is OFF, outputs are compatible with non-dimmable lighting types. Only enable dimming if the lighting/pump is dimmable (by leading edge).

SW4 TAP ENABLE

The 'double-tap' sensor used for lid-on programming can be disabled by turning SW4 off. The factory setting is ON.



MAINTENANCE

To prevent premature failure of the unit please take note of the following recommendations;

1. Never leave a module outdoors unless the lid is properly secured and the rubber gasket installed.
2. Ensure the 4 lid-screws are properly tightened after installation.
3. A smear of (Silicon) grease around the rubber gasket will protect it and help guarantee a long reliable life. Use **ONLY** silicon grease!
4. Before fitting or replacing a lamp, **ISOLATE THE POWER** (POWER MUST BE SWITCHED OFF AT THE SUPPLY – DO NOT USE THE REMOTE CONTROL).

USER-DIMMING ON OUTPUT 2

If the load on BOTH outputs is limited to 500Watts then user-dimming can be enabled for output 2. To enable user-dimming on output 2 press and hold memory-button #2 for 5 seconds while switching on the supply. To cancel this mode, press and hold memory-button #1 for 5 seconds while switching on the supply.



Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

NOTE;

Rights reserved to change the specification of this product without prior notice.

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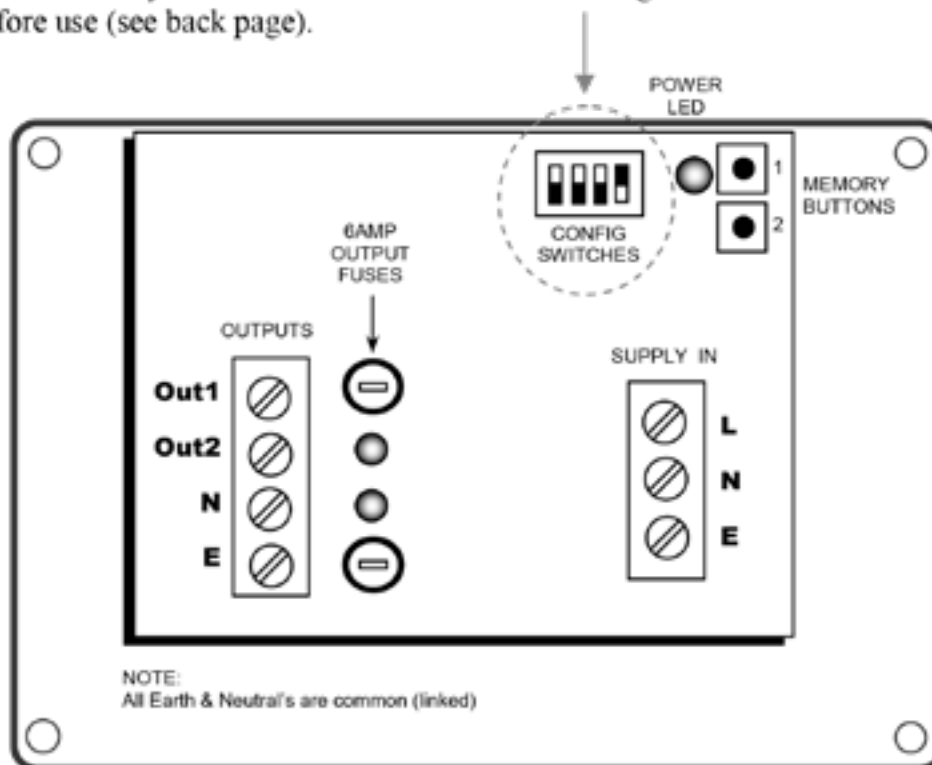


SPECIFICATIONS

Voltage	220-240V AC / 50Hz
Output Rating	1000W each channel
Minimum non-Inductive Load	0W (nil)
Minimum Inductive Load	10W each channel
Dimmer Type	Leading Edge
Protection	2 x 6Amp fuses
Weather Resistance	IP66
Physical	185 x 122 x 78mm / 0.8Kg
Ambient Temp.	-10°C to +40°C

INTRODUCTION

The 'Lighting Control Module' is for switching and/or dimming two separate lighting or pump circuits. It may be used with all lighting types including mains-halogen, magnetic low-voltage transformers, electronic transformers, (compact) Fluorescent, Metal-Halide, Sodium and LED. Output 1 is dimmable but shipped in 'Switch Mode', which is suitable for all load types. Output 2 is not user-dimmable but includes a soft on/off option when used with dimmable lighting. The unit is designed for outdoor installation but take note of the enclosed safety instructions. Please ensure the config switches are set correctly before use (see back page).



INTERNAL WIRING

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ELECTRICAL INSTALLATION

The unit must be installed by a qualified electrician working to national Electrical Regulations.

Ensure all cables enter the enclosure from below or have a 'drip-loop'.

NOTE: The Earth screw in the unit bonds all the metal parts to ground including the Steel Wire Armouring (via the metal chassis).

NOTE: NOT suitable for dimming very small transformers (less than 10W). If the lamp flickers, the transformer is too small or not compatible. Switch off immediately to prevent damage to the Transformer and/unit.

AREA (ZONE) MEMORY

Light Symphony allows 1-29 lighting 'Areas' (zones) to be created. Each lighting output can be included in any number of 'Areas' (zones). See example below;

EXAMPLE

AREA #	OUTPUT 1 e.g. driveway	OUTPUT 2 e.g. gate lights
ALL	✓	✓
1	✓	
2		✓
3	✓	✓
4-29

In this example, Area #1 controls just the drive-way lighting (Output 1) but Area #3 has also been used to control the driveway and gate lights as a group, which could then be triggered by a timer or PIR etc.

PROGRAMMING & SET-UP

1. Set CONFIG switches 2 & 3 to enable dimming with soft on/off, as required. To avoid damage, do not attempt to dim non-dimmable lighting or pump types.
 2. The power LED will light when the supply is on (unless config sw-1 is on).
 3. To test the unit is working, press "Garden On/Off" on the remote control. Both outputs will switch On/Off.
 4. To program lighting circuits (outputs) into an Area (zone);
 - a) Use the memory-buttons to switch on the output(s) you wish to add to an 'Area' (zone). After pressing a memory-button, the memory remains 'open' for 15 seconds and the power LED blinks to indicate this.
 - b) Pressing an Area button (1-29) on the remote control will close the memory and store any output(s) which are 'on' into that 'Area' (zone).
- e.g. Switch on outputs 1 and 2 and press Area key 3 to include them *both* in Area #3
5. To close the memory without making any changes, press "Garden Off" on the remote control or wait 15 seconds. Outputs can be *removed* from an 'Area' by ensuring they're OFF when storing an Area.

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LID-ON PROGRAMMING

It is also possible to program Areas with the lid on; Double-tapping the lid switches on Output-1 and opens the memory. Pressing any Area key on the remote control will store this setting. Each double-tap will cycle through a short sequence; output 1, then output 2, both outputs on and lastly both outputs off.

NOTE: The double-tap programming feature is automatically disabled after the power has been on for 2 hours. To re-enable it, cycle the power off and back on.

INSTRUCTIONS FOR USE

This unit will respond to commands received from the Light Symphony remote control. Initially, all outputs will respond to "Garden On/Off" only. Outputs can also be controlled using any number of Areas (zone) memories, as shown opposite.

The dim up/down keys on the remote control will effect the last group of lights switched on. i.e. After switching Area 1 ON, the DIM button will control Area 1 and after switching on all garden lights, the dim button will control the whole garden.

WELCOME HOME & SAVE POWER

Using dimmable lighting, an impressive welcoming and power saving feature is possible by setting the driveway lighting at a lower ambient level, (e.g. 25%) and using a driveway sensor to trigger the lighting to 100% when someone arrives. The 25% lighting can be switched on manually or by a base-station's dusk/dawn timer.

The effect is created by setting the drive-way 'Area' at a low level when configuring the lighting controller. For example;

1. Double-tap the lighting controller's lid to switch on Output 1 (the drive-way).
2. Press DIM-DOWN on the remote control to set the desired low lighting level.
3. Press an 'Area' button on the remote to store e.g. Area "3".
(Area '3' now switches the drive-way lights on/off at the dimmed level)
4. Lastly, teach the PIR or driveway sensor to trigger Area 3.

If the lights are off, the trigger will switch them on. If the lights are already on and at a low level, then the trigger ramps them to full brightness. The remote control may be used to override the sensor at any time.

FOUNTAIN / PUMP CONTROL

It may be desirable to exclude pumps from the global 'Garden On/Off' buttons on the remote, so they keep running when the lighting is switched off. Any output(s) can be 'removed' from the main "GARDEN ON/OFF" area by double-tapping until the desired output(s) is OFF then pressing the Dim Up & Down keys together to store and close the memory (a beep will be heard). The pump circuit must then be programmed into its own 'Area' and will ignore global 'Garden On/Off' commands.

ERASE MEMORY

To erase all memory press and hold memory-button #1 for 10 seconds. To erase individual Areas only, see section 5 on the opposite page.