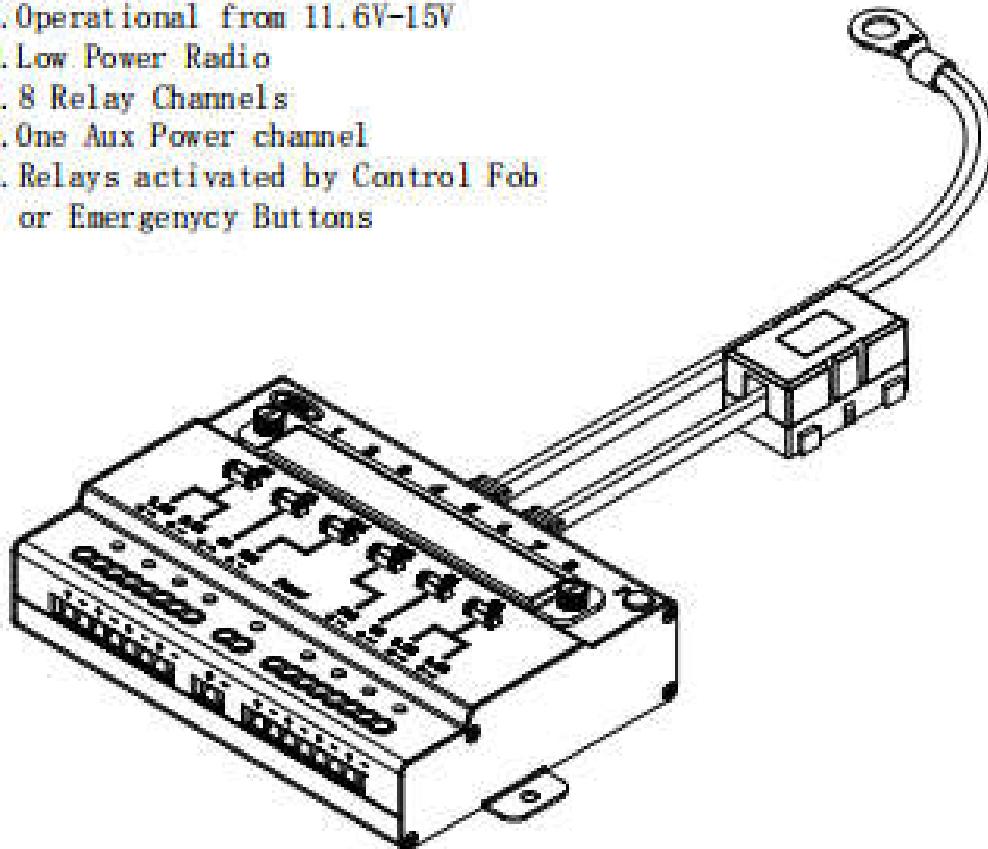


RSUCPU MANUAL

Notes

1. 12V@60A rated system
2. Operational from 11.6V-15V
3. Low Power Radio
4. 8 Relay Channels
5. One Aux Power channel
6. Relays activated by Control Fob or Emergency Buttons



1. Overview

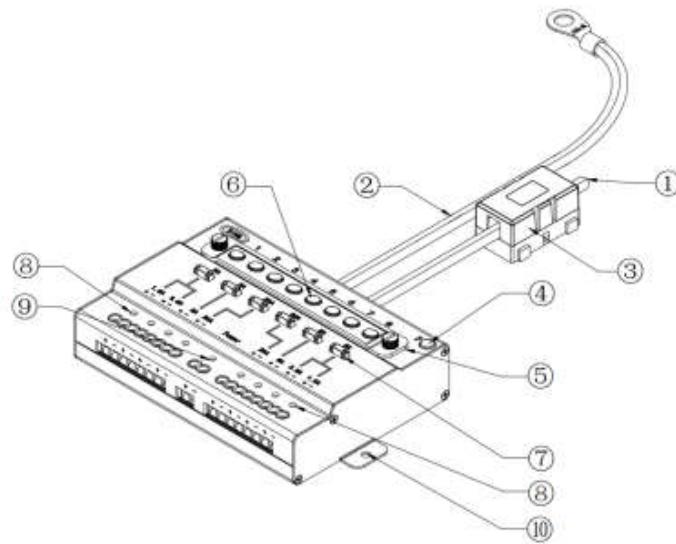
The Wireless relay system is a low power radio system, designed to operate with 12 Volt DC systems. This system allows remote control/relay operation of 8 relay channels. These relay channels are fused to allow connections to components of various amperage. The maximum current draw of the system is 60A. The system has been designed to reduce the requirement for hard wired switches and will also help reduce installation time.

In order to be able to use this product correctly, please read this instruction manual carefully. The installation of this product must be carried out by professional / qualified personnel

2. Contents

The system comprises the following elements

RSUCPU – Relay Box (see fig 1)



- ① Positive
- ② Negative
- ③ Blade Fuse
- ④ Pair Button
- ⑤ Emergency Switch Cover
- ⑥ Emergency Switch
- ⑦ Mini Fuse
- ⑧ Work Status Indicator
- ⑨ Power/Failure/Pairing Indicator
- ⑩ Mounting Hole

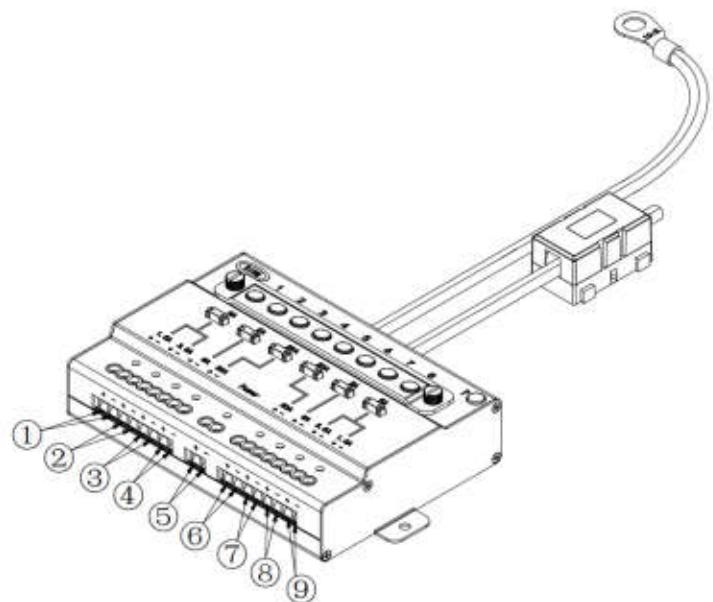
Fig 1 RSUCPU, Relay Box

3. Connections & Controls

3.1 RSUCPU, Relay Box

1. For the power feed to the Relay box, a copper cable with a cross sectional diameter of 10mm² is required. Please ensure this cable length does not exceed 3 meters! The power feed to the relay box is fused at the input with a 60A fuse, placed in a holder.
2. System is only rated for 12V DC systems. AC power must not be connected to input supply line or relay output channels. On Relay output channels, do not connect power into these channels, they are outputs only.
3. When connecting outputs from the relay channels to a specific device please ensure the following
 - a) Device is rated for current output of relay channel
 - b) Ensure voltage polarity connections are connected per device specifications i.e. positive relay output to positive input pin of device, negative relay output to negative pin of device
 - c) Wiring cables are rated for relay current output.
 - d) Each individual relay output is connected to a single device.
4. Supply voltage to relay box must not exceed 15.5V DC @ 60A.
5. The maximum current per set of output ports of this product is labelled upon the surface of the relay box. Please see fig 4 for current ratings.

Installation of the RSU60 system should be carried out by Professional / Qualified personnel only.



- ① 1.5A, Blade Fused
- ② 3.5A, Blade Fused
- ③ 5A, Blade Fused
- ④ 20A, Blade Fused
- ⑤ 1.5A, Built in self resetting fuse
- ⑥ 20A, Blade Fused
- ⑦ 5A, Blade Fused
- ⑧ 3.5A, Blade Fused
- ⑨ 1.5A, Blade Fused

Fig 4 RSUCPU Relay Control Box

5.2RSUCPU, Relay Box,

5.2.1 Operational Voltage

The Relay Box has been designed to provide full operation between the input supply voltage range of 11 to 15.5V. The Relay box outputs will become inactive for voltages outside this voltage input range. The Power LED on the Relay box will also turn from Green illumination to a Red illumination, if the supply voltage is outside the design range.

5.2.2 Emergency Buttons

In the event the Remote Control Fob fails. The relay Box output channels can be operated via the emergency buttons. These are located underneath a metal cover labelled Emergency Use only see fig 1, item 6.

5.2.3 Pairing Function

If an additional Remote Control Fob is required, or the existing Control Fob becomes faulty. The following process can be used to add additional Control Fobs or to replace a faulty Control Fob.

1. Ensure Fob has battery installed and the battery is fully charged.
2. Ensure power is available to RSUCPU, Relay Box
3. On the RSUCPU Relay Box, push and hold down the Pairing button (see fig1, item 4)
4. Once Power LED on RSUCPU Relay Box (see fig 1, item9) begins to flash slowly. Pairing Button can be released. Relay Box is now ready for pairing to Remote Control Fob
5. On the RSURC, Remote Control Fob. Push and hold down one of the 8 buttons. The top middle LED will illuminate /blink twice. The first time, the LED will only be on a short time, the second illumination will be on for a longer interval (see fig5, item 1). After successful pairing. The fob button can be released.
6. Pairing process will take approximately 60 seconds to complete
7. If pairing is successful, LED in step 4 will stop flashing and be illuminated Green.
8. If pairing is unsuccessful, LED in step 4 will stop flashing and be illuminated Red!
9. If pairing is unsuccessful, carryout steps 1 to 6 one more time.

FCC Warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.