

TrolMaster

Trolmaster's 4RS-1 Power Expansion Module allows the user to control multiple 120 or 240 volt devices using a single device control module connected to one of our controllers. This guide will show how to wire & connect the 4RS-1. * *We recommend a licensed electrician assist in the installation if you are not familiar with electrical equipment.*

The 4RS-1 is a unique product that acts as a power expansion module when it is used with one of TrolMaster's DSC, DST, DSH or DSP-1 modules. The DS module is used to act as the "triggering" or control module that will activate the 4RS-1.

The 4RS-1 has 4 separate "universal X-plugs" to connect to multiple devices that need to be turned on and off. All 4 receptacles will be triggered (turned on) from the same control module, and each of the 4 receptacles will be turned on with a 3-second time delay in sequence to reduce inrush current on startup.

The 4RS-1 has a pre-wired 120 volt "trigger" cable that will plug into any of the DS type plug-in style of device modules. When the trigger cable is powered, it will turn on the 4RS-1.

Before using the 4RS-1, it must first be connected to a power source of your choice. 120 or 240 volt power up to 50-amps can be connected into the 4RS-1. The size of the wire, rating of the circuit breaker and the amount of power that needs to be connected to the 4RS-1 is based on the equipment you will be connecting to the 4RS-1.

First you will need to determine the amount of power that needs to be hard-wired into the back of the 4RS-1. Proper sizing and circuit loading of about 75% is recommended. That means if you will be running two dehumidifiers that are 11 amps each, you would have to connect a 30-amp circuit to the 4RS-1.

Example: $11+11=22$ amps minimum required. At 75% loading that would require a 30-amp circuit $30 \times .75 = 22.5$ amps.

The rear cover of the 4RS-1 is removable to allow the user to connect their power circuit to the 4RS-1. A large molded strain relief connector allows up to 50 amp cables to be used. When the rear cover is removed, you will find three power terminals to connect to your power supply cable.

If you will be connecting a 120 volt power circuit, you will connect the Black wire to L1, the white wire to N, and the green or bare wire to the Grd / ground terminal.

If you will be connecting a 240 volt power circuit, you will connect the black wire to L1, white wire to N and the green or bare wire to the Grd / ground terminal

Once all of the wiring is complete, when the trigger cable is powered, the 4 receptacles on the front of the 4RS-1 and their associated LEDs will turn on in sequence left to right in 3-second intervals.

*** Note: Make sure to ONLY use equipment and devices that are rated for the correct voltage you are connecting to the 4RS-1, or else damage to the device or the 4RS-1 could occur.**

If you are still having problems, call TrolMaster Tech Support @ 877-420-9876