



Technical solution guide

ANALOGUE RGB CONTROL USING SR-2817DMX, SR-2102BEA & SR2819T8

SCENARIO

CUSTOMER WOULD LIKE TO HAVE CO-ORDINATED RGB COLOUR CONTROL OF A NUMBER OF DISPARATE SECTIONS OF LOW VOLTAGE (12V OR 24V) NEON FLEX OR FLEXIBLE STRIPS, CONTROLLED FROM A REMOTE CONTROL.

SOLUTION

THIS SOLUTION CONSISTS OF A DMX MASTER CONTROLLER (SR-2817DMX) CONTROLLING ONE OR MORE DMX DECODERS (SR-2102BEA) ; THE DMX MASTER IN TURN WILL RECEIVE AN RF SIGNAL FROM SR2819T OR SR-2819T8 REMOTE CONTROLS. THE RGB OR RGBW FLEXIBLE STRIP OR NEON FLEX WILL BE WIRED INTO THE DMX DECODER.

REQUIRED: SR-2819T OR SR-2819T8 REMOTE CONTROL
SR-2817DMX DMX MASTER CONTROLLER
SR-2102BEA RGBW DMX DECODER

SETUP

SR-2102BEA SUPPORTS A MAXIMUM OF 8A PER CHANNEL WITH RED, GREEN, BLUE AND WHITE EACH BEING ONE CHANNEL. THIS MEANS YOU CAN RUN AROUND 7.5M OF TYPICAL 12V RGB FLEXIBLE STRIP AT 14.4W PER METER OR 15M OF 24V RGB FLEXIBLE STRIP, AGAIN AT 14.4W PER METER.

IF MORE DMX DECODERS ARE REQUIRED, THE DMX CABLES ARE DAISY-CHAINED FROM ONE DECODER TO THE NEXT.

STEP 1 WIRE THE SR-2817DMX DMX MASTER

- CONNECT THE INPUT 220V POWER TO THE DMX MASTER
- CONNECT THE THREE DMX CABLES TO THE DMX MASTER

STEP 2 WIRE THE SR-2102BEA DMX DECODER

- CONNECT THE OTHER END OF THE WIRED DMX CABLES, TO THE FIRST DMX DECODER ENSURING YOU MATCH UP THE POSITIVE, NEGATIVE AND GROUND WIRES CORRECTLY
- ENSURE THE DMX DECODER CHANNEL IS CORRECTLY SET, AS FOLLOWS:
 - CHANNEL 1 = ZONE 1
 - CHANNEL 5 = ZONE 2
 - CHANNEL 9 = ZONE 3
 - CHANNEL 13 = ZONE 4
 - ETC
- CONNECT YOUR 12V OR 24V POWER INPUT TO THE DMX DECODER ENSURING THE POWER INPUT MATCHES THE POWER REQUIRED BY YOUR FLEXIBLE STRIP OR NEON FLEX

STEP 3 ADD MORE DMX DECODERS

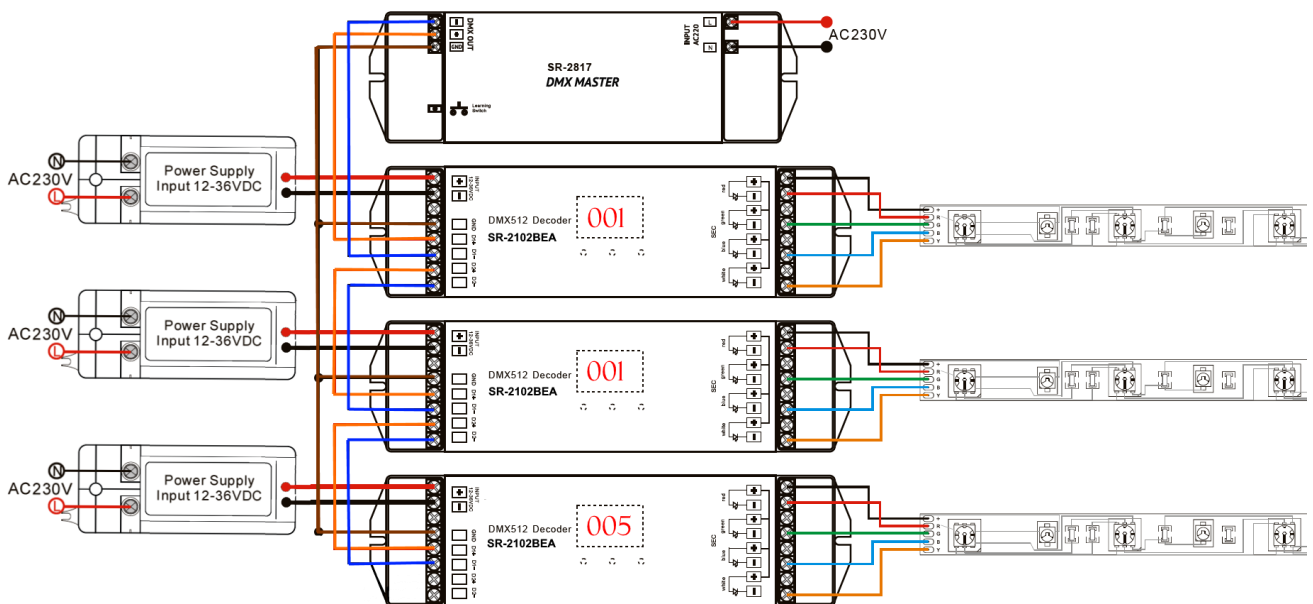
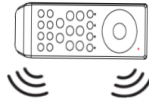
- CONNECT THE THREE DMX CABLES FROM THE DMX PORTS ON THE PREVIOUS DMX DECODER TO THE DMX PORTS ON THE NEW DMX DECODER
- ENSURE THE DMX CHANNEL IS SET
- CONNECT YOUR 12V OR 24V POWER INPUT TO THE DMX DECODER ENSURING THE POWER INPUT MATCHES THE POWER REQUIRED BY YOUR FLEXIBLE STRIP OR NEON FLEX

STEP 4 CONNECT TO POWER

- POWER ON THE DMX DECODER ; USUALLY THE LED STRIP WILL FLASH RED ON AND OFF ONCE
- POWER ON THE DMX DECODER ; USUALLY THE LED STRIP WILL GO A GREEN COLOUR

Step 5 Set up the remote control

- Ensure the remote control has batteries
- Turn the remote control on
- Set zone 1
- Press and release the learning button the DMX master
- Turn your finger around the colour wheel on the remote control
- The LED lights should now be controlled by the remote control



In the wiring example above, the first two decoders are set to channel 1 which means that they will respond to zone 1 on the remote control, whilst the third decoder is set to channel 5 which means it will respond to zone 2 on the remote control.