

Christmas Light Tester

Main Menu

E1. 13

3 wire

wS2801

Renar d



Main Menu

Select one of the modes you wish to test.

Or select the Gear Icon for settings

Test E1. 31

RED

GREEN

BLUE

Cal i b

St op



Connect

Disconnect

Test E1.31

Calib - emits one Red LED, two Green LEDs and three Blue LEDs. Used to verify order. If your LED show up with a different color, you can then program controller or sequencing software to fix.

Connect - Connect to WiFi

Disconnect - Disconnect from WiFi

Christmas Light Tester

Run 3 wire

RED

GREEN

BLUE

Calibrate



STOP

Run 3 Wire

Calibrate - emits one Red LED, two Green LEDs and three Blue LEDs. Used to verify order. If your LED show up with a different color, you can then program controller or sequencing software to fix.

Run wS2801

RED

GREEN

BLUE

Calibrate

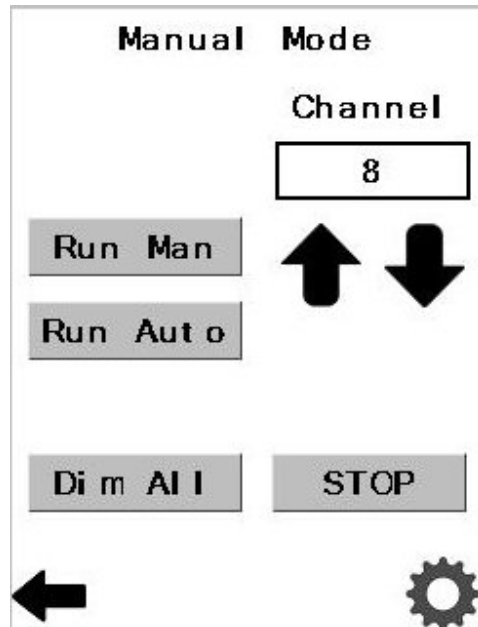


STOP

Run WS2801

Calibrate - emits one Red LED, two Green LEDs and three Blue LEDs. Used to verify order. If your LED show up with a different color, you can then program controller or sequencing software to fix.

Christmas Light Tester



Run Renard

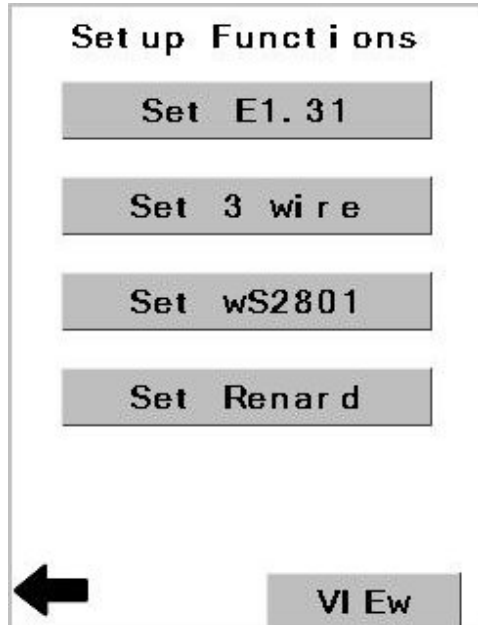
Run Man - Illuminates Channel listed from off to full on, over and over.

Run Auto - - Starts at channel 1 and runs through Max Channel.

Dim All - Illuminates all channels to Max Channel.

Arrow Up/Down - manually increase/decrease current channel in Run Man.

Channel - click here to manually change working channel



Setup Functions

Select which function you want to change parameters.

Christmas Light Tester

| | | | |
|-----|---|---|----|
| 1 | 2 | 3 | CE |
| 4 | 5 | 6 | C |
| 7 | 8 | 9 | |
| ESC | 0 | . | |

| | | |
|------|---------|-------|
| IP | | Port |
| SIZE | BRI GHT | UNI V |

Setup E1.31

Type number first then press selected button you want to save to.

IP - Change E1.31 IP address

Port - Change UDP port

Univ - DMX universe number

Size - Number of nodes

Bright - How bright the leds will light up.

ESC - leave the screen

| | | | |
|-----|---|---|----|
| 1 | 2 | 3 | CE |
| 4 | 5 | 6 | C |
| 7 | 8 | 9 | |
| ESC | 0 | . | |

| | | |
|---------|--|-------|
| Br ight | | SI ZE |
|---------|--|-------|

Setup 3 Wire

Type number first then press selected button you want to save to.

Size - Number of nodes

Bright - How bright the leds will light up.

ESC - leave the screen

Christmas Light Tester

| | | | |
|-----|---|---|----|
| 1 | 2 | 3 | CE |
| 4 | 5 | 6 | C |
| 7 | 8 | 9 | |
| ESC | 0 | . | |

Bright

SIZE

Setup WS2801

Type number first then press selected button you want to save to.

Size - Number of nodes

Bright - How bright the leds will light up.

ESC - leave the screen

| | | | |
|-----|---|---|----|
| 1 | 2 | 3 | CE |
| 4 | 5 | 6 | C |
| 7 | 8 | 9 | |
| ESC | 0 | . | |

Baud ?

SIZE

MAN

AUTO

Delay

Setup Renard

Type number first then press selected button you want to save to.

Baud - 0=57600; 1=115200, 2=230400 & 3=460800

Man - smoothness of illumination (man mode)

Auto - smoothness of illumination (auto mode)

Size - Number of nodes

Delay - How fast we cycle through channels

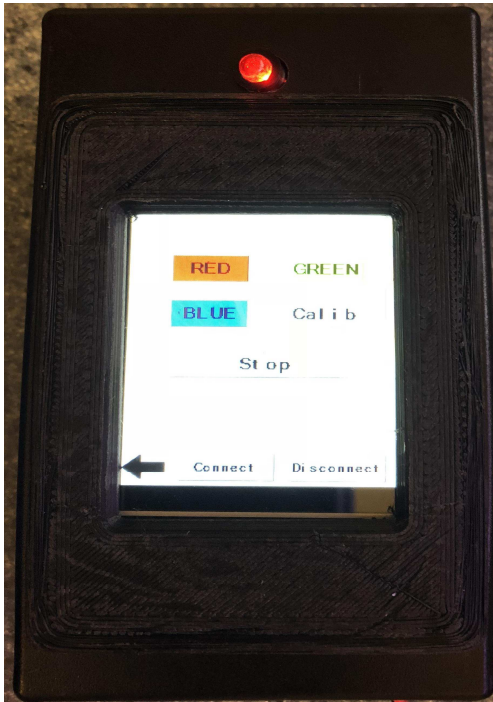
ESC - leave the screen

Christmas Light Tester

E1.31 -- IP Address:
192.168.1.49
Port: 5568 Size: 100
Universe: 100
Brightness: 125
3wire --
Size: 50
WS2801 -- Size: 100
Renard --
Baud: 0 Size: 8
Speed:
Man: 10 Auto: 10
Delay: 10

View Screen

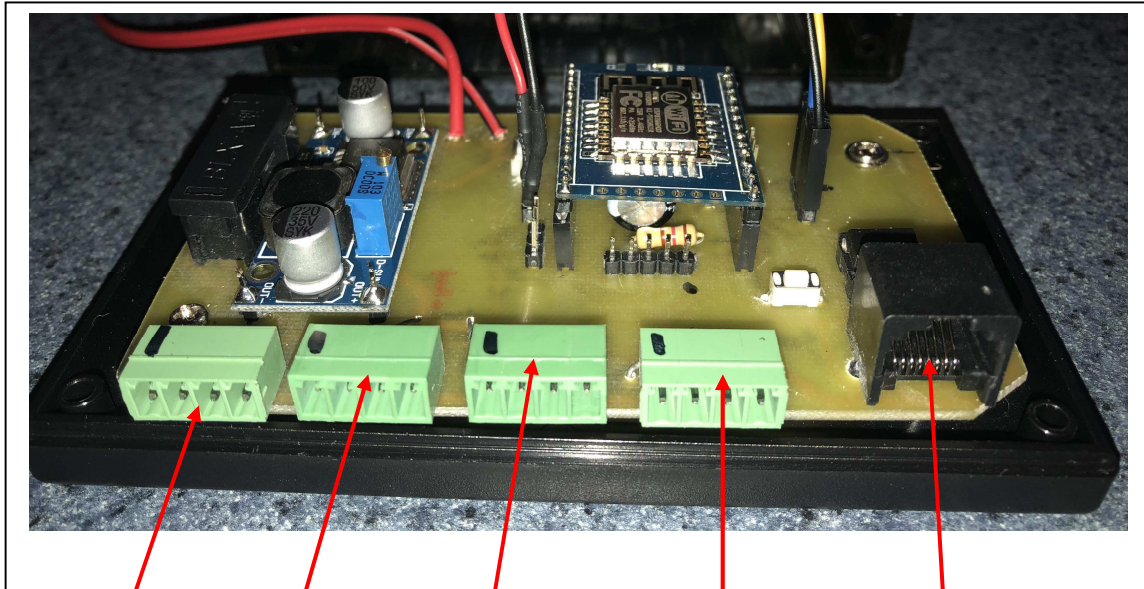
Views settings for all setup parameters.



Front of controller

LED light up when connected to WIFI.

Christmas Light Tester



3 Wire - 5VDC

+ Data Data Gnd

WS2801 - 12VDC

+ Data Clock Gnd

Renard RS485 - RJ45

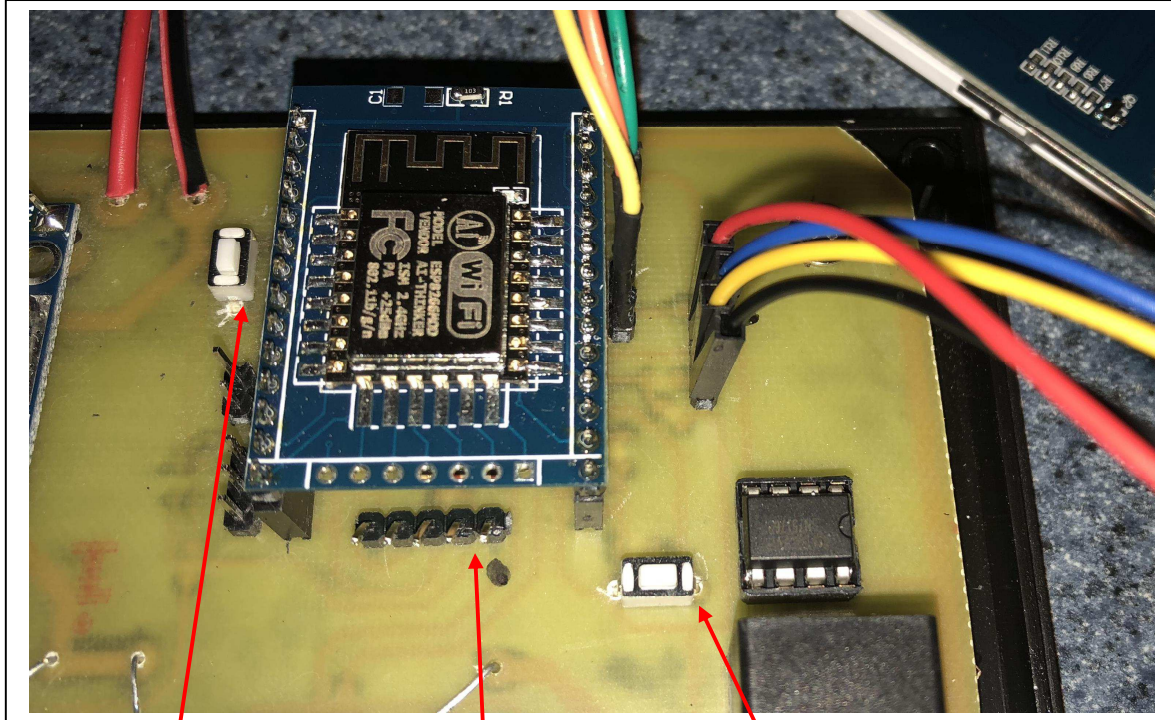
3 Wire - 12VDC

+ Data Data Gnd

WS2801 - 5VDC

+ Data Clock Gnd

Christmas Light Tester



ESP8266 Reset

Used for programming

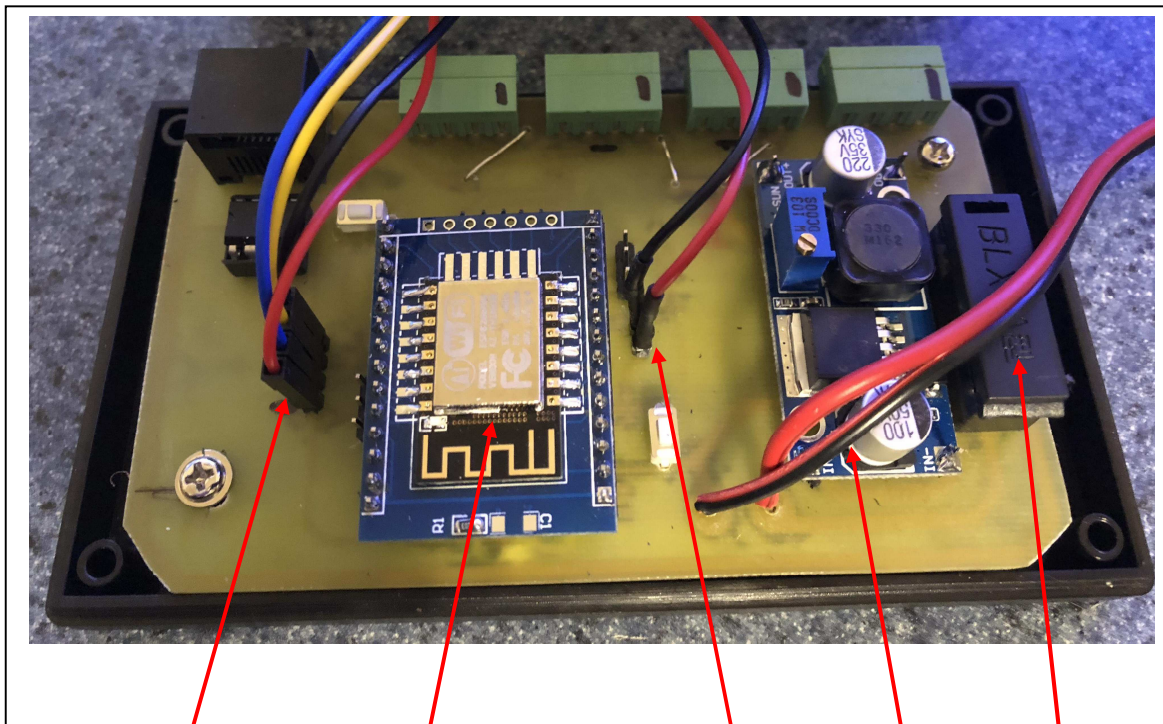
ESP8266 IO0

Used for programming. Hold down while pressing Reset button. Release Reset button then release PGM button

Pic16F1825 - ICSP

PGD PGD GND VDD MCLR

Christmas Light Tester



ESP8266 -12F

Arduino compatible MCU with
WIFI

LED leads

Fuse

Nextion LCD

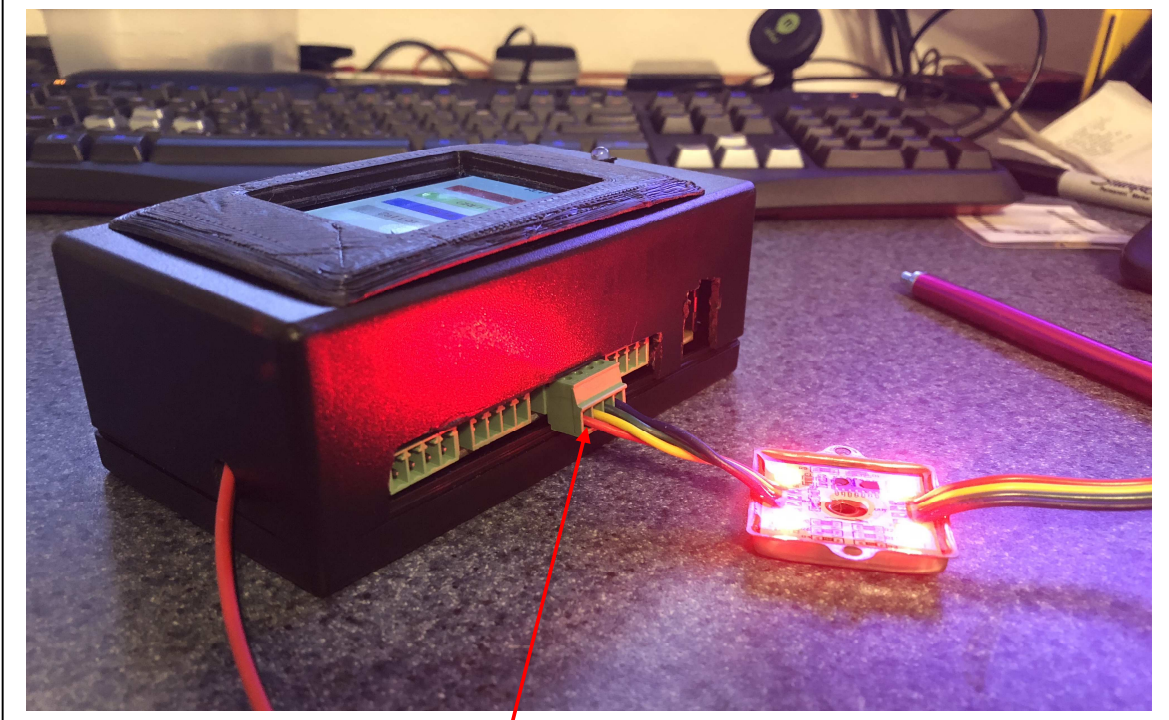
Red = 5vdc, Black = GND,

Blue = Tx and Yellow = RX

LM2596

DC to DC converter. Set to 5VDC
and good for up to three amps
with proper heat sink

Christmas Light Tester



Testing a 12vdc, WS2801 4
wire pixel