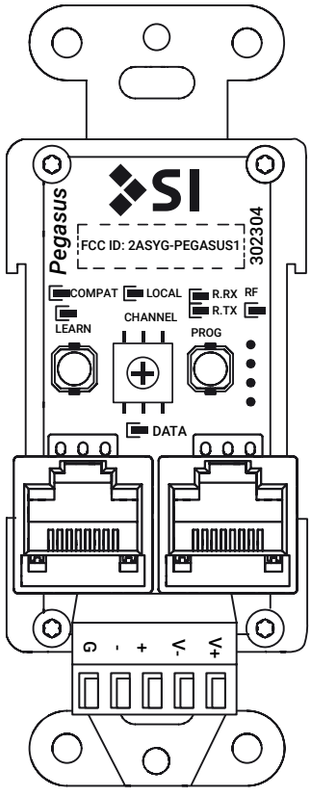


Pegasus

Installation Instructions

400243 | v. 1.0 | 29 August 2023

Please use this QR Code to access more documents and Video Tutorials related to the product.

Tech Specs
Scan the QR code to scan Pegasus specsheet

FCC INFORMATION

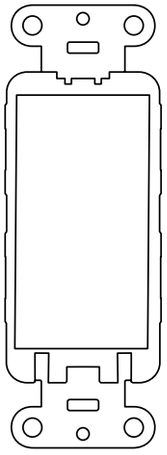
This device complies with FCC RF radiation exposure limits set forth for general population. This device must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located in conjunction with any other antenna or transmitter. This device complies with part 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.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the 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 device complies with Canada's license-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

CONTENTS

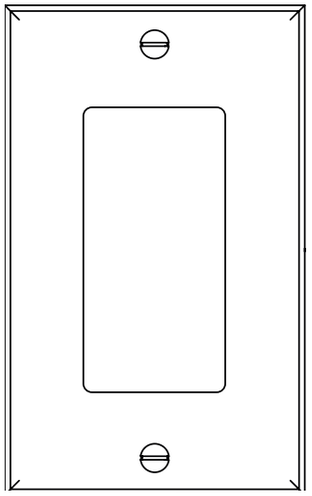
Technical Support: 512.832.6939
Hours of Support: 7:30am - 5pm CST

screensupport@screeninnovations.com
shadesupport@screeninnovations.com

PARTS IN THE BOX

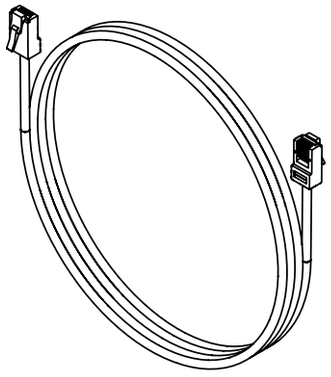


(1) Pegasus

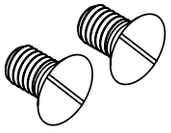


(1) White Decora Wall Trim Plate

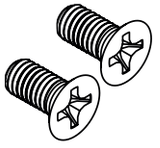
(1) Pegasus Decora Label



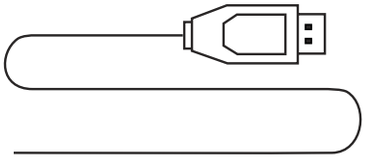
(1) CAT5e



(2)Trim plate screws



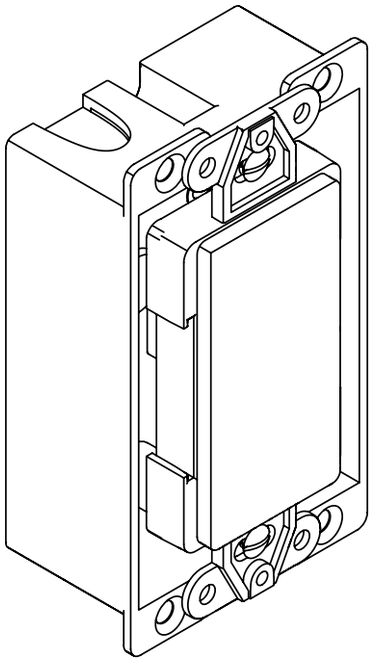
(2) J Box screws



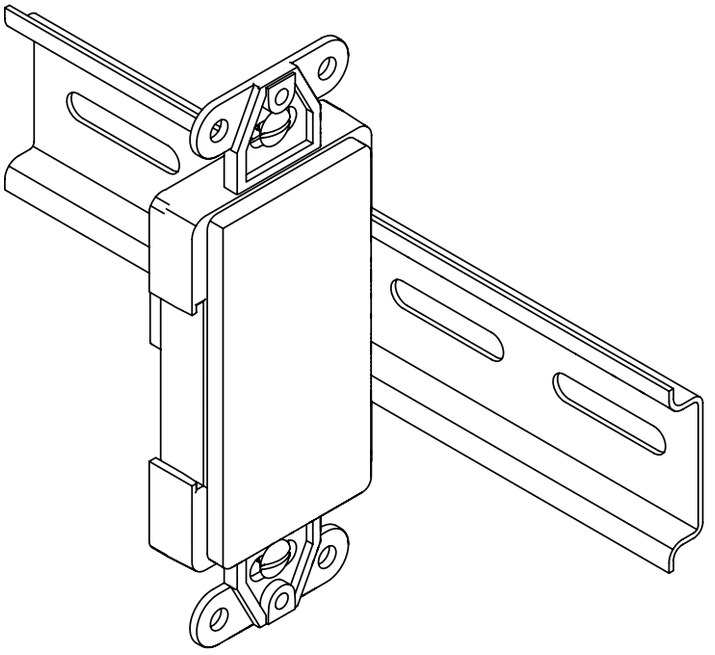
(1) AUX USB Power Cable

MOUNTING OPTIONS

Choose your mounting:



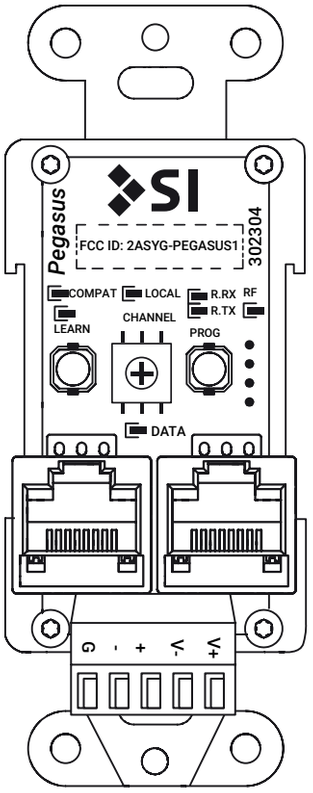
Standard single or multiple gang J Box



Left or Right Din Rail mounting

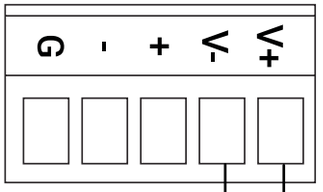
Pegasus Pro-tip
It is best not to mount Pegasus in a metal J Box

RJ45 AND POWER PINOUTS



5 position removable screw-down Terminal block connector for GPI/O

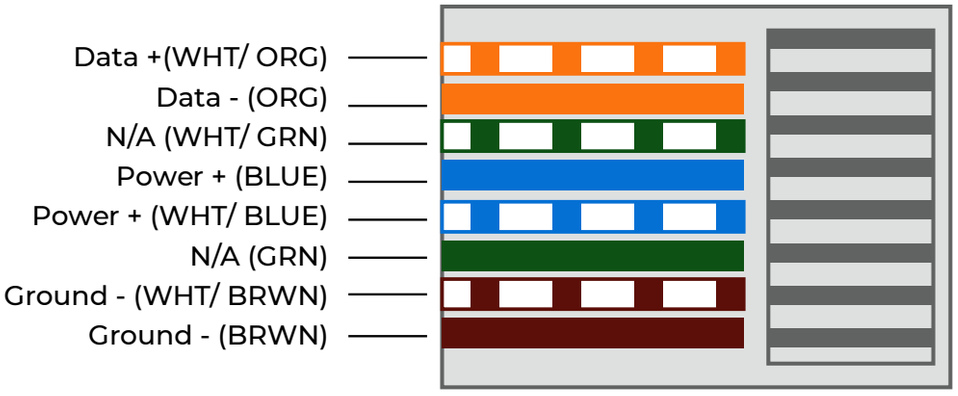
Aux power Input (7-28vDC)



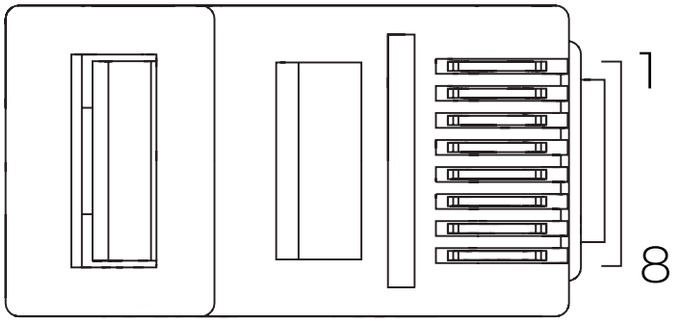
- Ground (USB Black)

+7-28vDC Positive (USB Red)

485 Connection (TIA 568B)

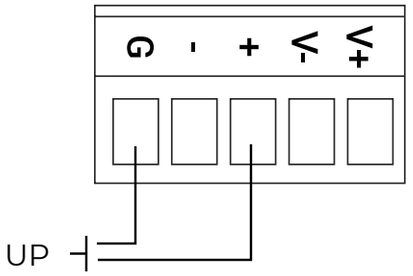


RJ Pin Outs

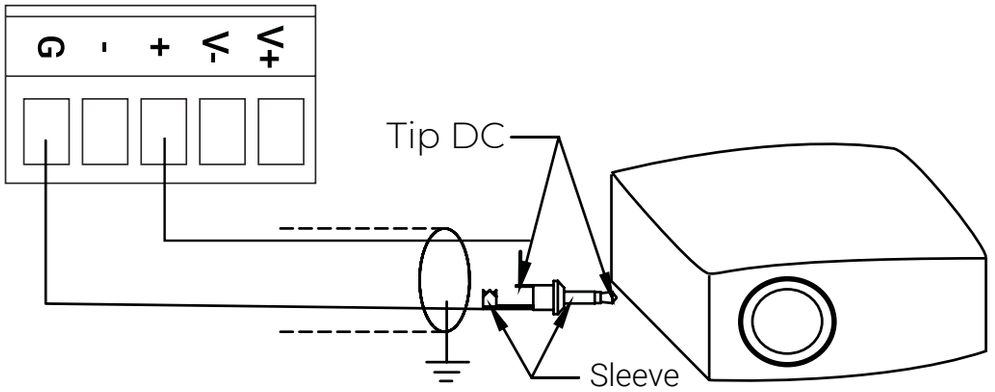


GPI/O AND DRY CONTACT PINOUTS

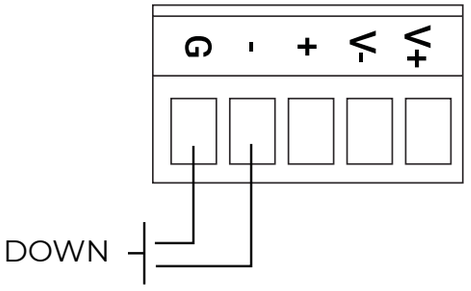
Dry Contacts

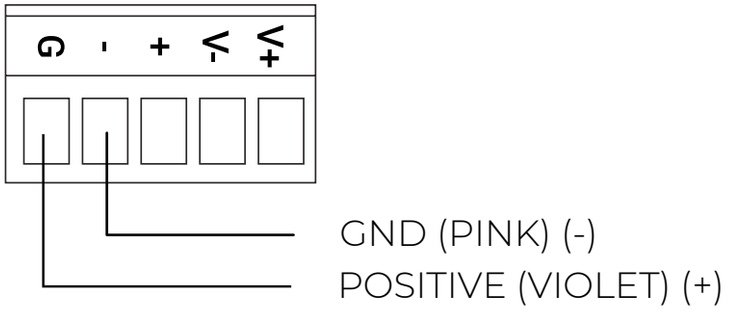


12 V Trigger

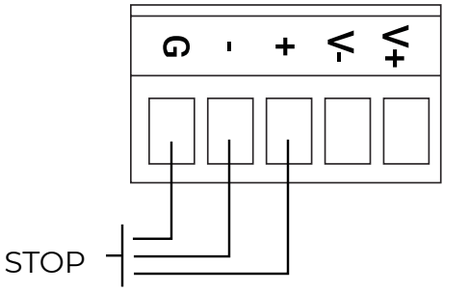


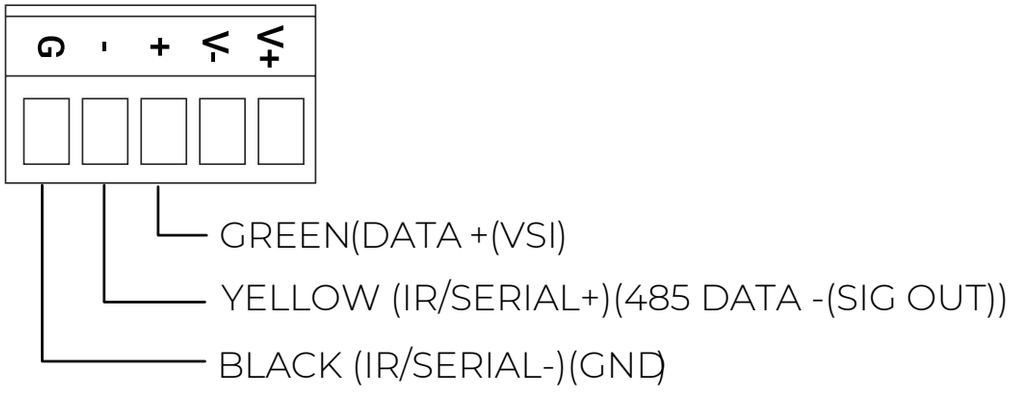
0 - 10V Input





IR Input





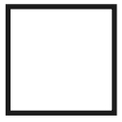
IR HEX CODES

Third party IR universal control systems may be used to control the screen or using these hex codes: (Available on the website too.)

* Not included / optional

UP

0000 006c 0000 000c 0006 011b 0006 011b 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 08a4



STOP

0000 006c 0000 000c 0006 011b 0006 011b 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 011b 0006 08a4

DOWN

0000 006c 0000 000c 0006 011b 0006 011b 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 00bb 0006 011b 0006 00bb 0006 08a4

LED DETAILS

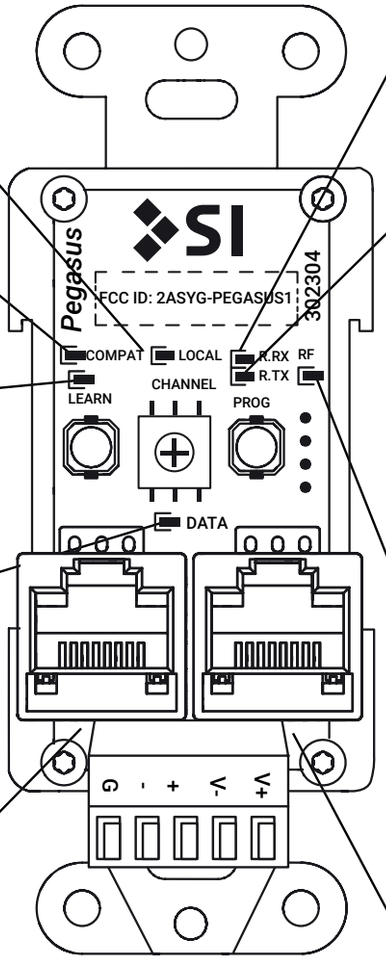
Local Mode
ON when in Local Mode

Compatible Mode
ON when in Compatible Mode

Learn
Flashes when learning a remote

485 Data/Power
ON, when power from BUS or AUX is applied and flashes OFF with 485 data on Bus

DOWN GPI/O
Briefly turns on with a valid signal on the GPIO/O Connector



Repeater Mode Receive (Rx)
On SOLID when IN Repeater RX Mode

Repeater Mode Transmit (Tx)
On SOLID when IN Repeater RX Mode

R.RX
R.TX
Both Rx and Tx LED's remain on when in Rx/Tx repeater mode

Sub GHz Signal
Briefly turns on with any valid Sub GHz Data (Receiving or Trasmitting)

UP GPI/O
Briefly turns on with a valid up signal on the GPI/O Connector

USER BUTTON ACTIONS

Hexadecimal Switch

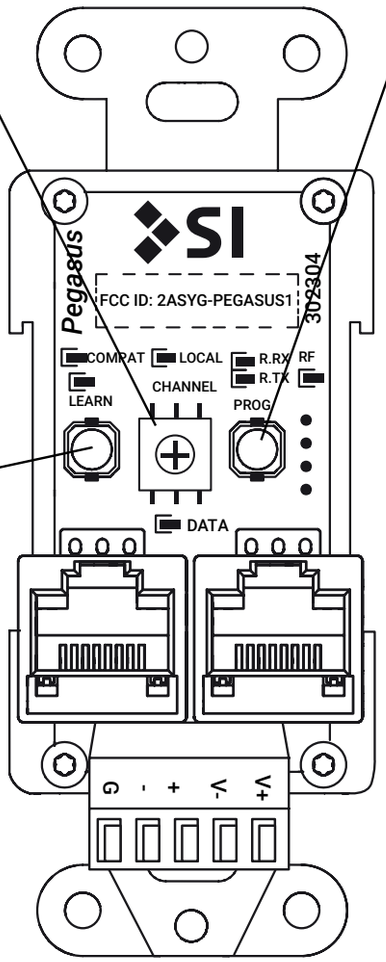
16 Rx/16 Tx Channels O-F

Note: moving the Hex to C.E.F. will change the transceiver to one of three repeater functions in local mode

Learn Button

Press this button (LED starts flashing) to LEARN a Sub GHz keypad, remote or sensor on the currently set Hex CH (up to 16)

Hold button (3 seconds) (until LED comes on to erase the current Hex set remote channel)



Program Button

Press and release sends pairing command. Use this button to program SubGHz Motors.

Hold button (3 seconds to reboot and boot in compatibility mode (Compat LED turns on)(Legacy mode is default)toggle

Holding both Program and Learn button down for approx. 3 secs will factory reset, all LED's will come on (erases all channels in and out and puts Pegasus back in Local mode and Legacy compatibility)

HEX Switch Fixed Channels

C = Repeater Transmit Mode (Tx) R.TX LED ON (Transmits relayed 485 repeater groups)

D = Repeater Receive Mode (Rx) R.Rx LED ON (relays received RF cmds and sends over 485)

E = Repeater Legacy Mode (Rx/Tx) Both R.Rx and R.Tx LED ON (repeats cmds from Rx. to Tx)

F = Motor Channel / GPI/O Output Default

LEARNING SOMFY OR OLIBRA REMOTES, KEYPADS & SENSORS

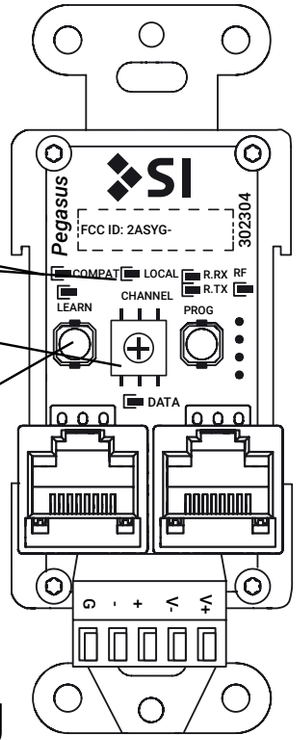
Use the Terminal Block or 485 Bus for power

Ensure Compat LED is OFF

Ensure the Local LED (red) is ON

Adjust the HEX(0-F) to the desired Channel to learn the remote, keypad or sensor

Press the Learn Button (Light will start to flash).



On the device you wish to learn click the program button once and if the device transmits you will see the RF LED light up and the Learn LED will stop flashing

Note: The program button on the remote device is typically found on the back and in some cases the case may need to be temporarily removed to gain access

Connect a 485 motor to one of the 485 ports, and you can now test the learned remote, keypad or sensor

If you want to learn other devices just repeat the above steps from the HEX adjustment down for up to 16 devices

LEARNING PICO REMOTES TO CONTROL A 485 MOTOR

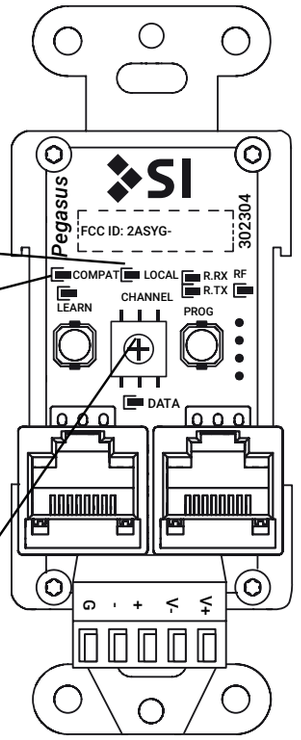
Use the Terminal Block or 485 Bus to power up Pegasus

Ensure the Local LED (red) is ON

Check to see if the Compat LED is ON, if it is skip over the next step

Press and hold the PROG button down for 3 seconds, LED's will flash on, and the Compat LED will turn ON

Adjust the HEX to the Channel you wish to learn the remote, keypad or sensor to (0-F)



Press the Learn Button (Light will start to flash)

On the device you wish to learn hold any button down for approx. 7 seconds The Learn LED will stop flashing indicating the device was learned

Ensure a 485 motor is powered up and connected to one of the 485 ports, and you can now test the learned remote

If you want to learn other devices just repeat the above steps from the HEX adjustment down, for up to 16 devices

PROGRAMMING AN RTS MOTOR

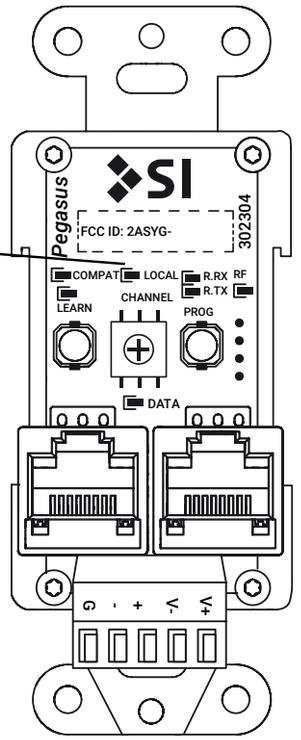
Use the Terminal Block or 485 Bus to power up Pegasus

Ensure the Local LED (red) is ON

Place the desired Motor into learn mode

This can be done with an accompanying remote by holding the up and down button until the motor jogs once, or if you do not have a remote then hold the motor programming button typically found on the motor head until the motor jogs once.

Some RTS motors have a yellow LED that will begin flashing



Next press the Prog button on Pegasus, and the motor will jog once confirming you have programmed the motor.

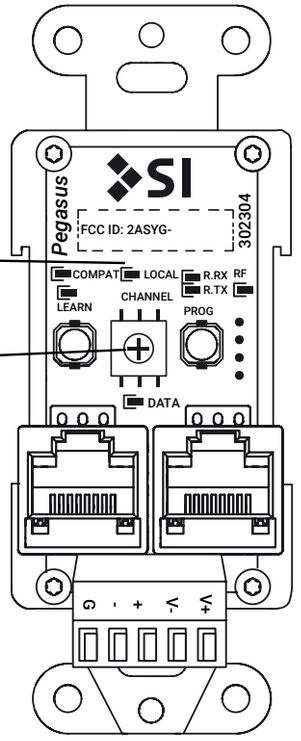
You can now use the GPI/O inputs or 485 commands to test your RTS Motor

RTS SMART REPEATER SETUP

Use the Terminal Block or 485 Bus to power up Pegasus

Ensure the Local LED (red) is ON

Set HEX switch to channel E



Verify that Both the R.RX and R.TX LED's turn on and stay lit

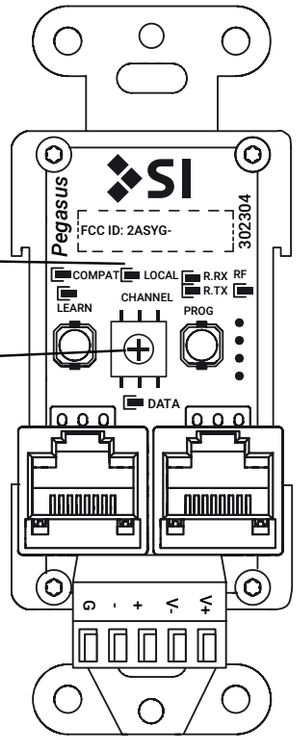
Any valid RTS RF signal will now come in, and then be retransmitted back out

RTS to 485 SMART RECEIVER SETUP

Use the Terminal Block or 485 Bus to power up Pegasus

Ensure the Local LED (red) is ON

Set HEX switch to channel D



Verify that the R.RX LED turns on and stay lit

Connect a CAT 5e or greater 24AWG cable to one of the 485 data ports

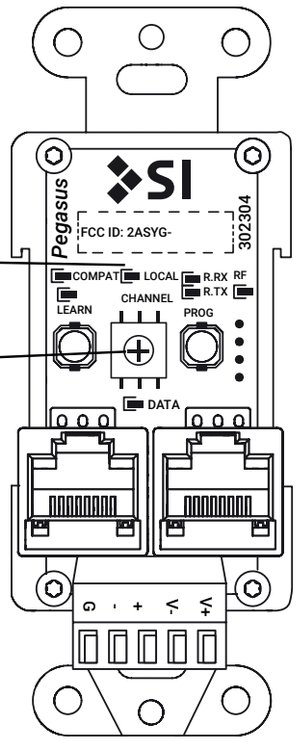
Any valid RTS RF signal will now come in, and then be formatted and sent out the 485 bus for other Pegasus configured as an RTS Smart Transmitter to re-transmit up to 4000’ away

485 TO RTS SMART TRANSMITTER SETUP

Use the Terminal Block or 485 Bus to power up Pegasus

Ensure the Local LED (red) is ON

Set HEX switch to channel C



Verify that the R.TX LED turns on and stay lit

Connect a CAT 5e or greater 24AWG cable to one of the 485 data ports.

Any valid 485 smart receiver group message will now be formatted as an RTS message and repeated out the RF output

NETWORK MODE

Please connect Pegasus to a 485 bus port segment with a TRO.Y connected.

Please refer to Pegasus Transceiver Configuration Section in TRO.Y / 2 Programming Manual. scan QR code

FACTORY RESET

To factory reset Pegasus press and hold both the Learn and Programming buttons for approx 3 seconds until all led's come on. This will erase any remotes, or motors stored, switch modulation back to Legacy and place the Pegasus in the Local mode.

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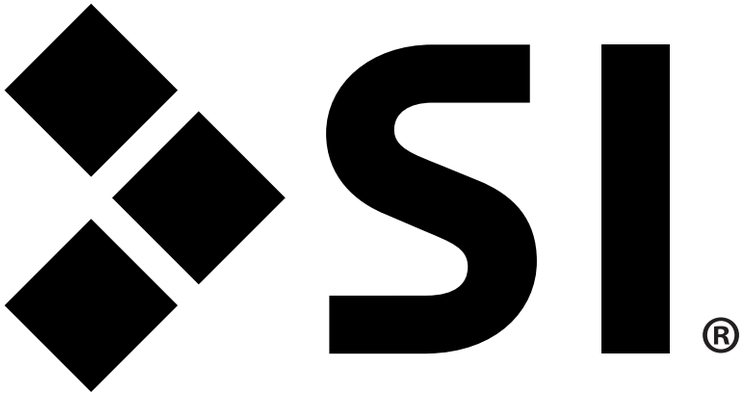

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www.screeninnovations.com

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