

SA Flex SERIES

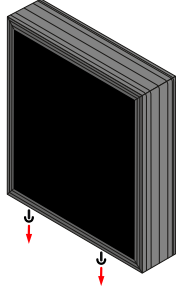
Indoor / Covered Outdoor Sign Install Instructions

Voltage

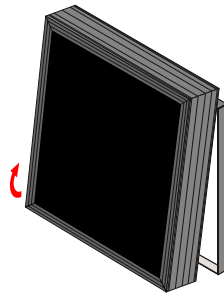
This sign operates within an input range of 100VAC to 240VAC.

Installation Steps (Wall Mount)

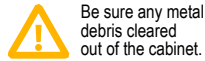
1. Remove the two screws on the bottom of the front frame of the cabinet.



2. Lift cabinet open. **Note:** Cabinet can be removed from backing plate for easy wall mounting.

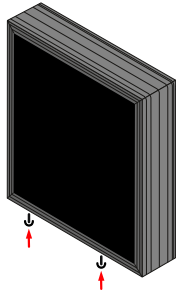


3. All conduit connections **MUST** be water tight and preferably on the bottom of the cabinet. Any metal debris **MUST** be cleared out of the cabinet.

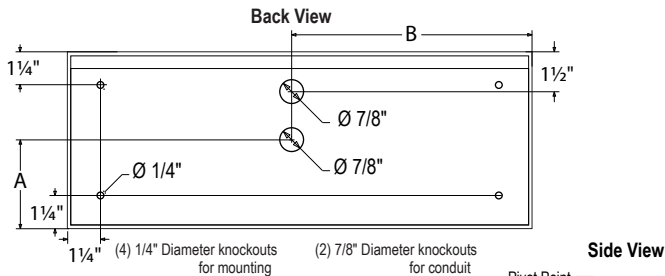


4. Make wiring connections following wiring instructions

5. To close, rest cabinet on lip of back plate and hinge closed. Replace the two screws removed in step 1.



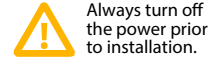
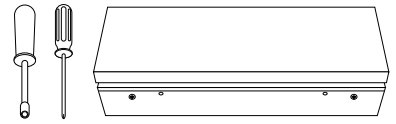
All dimensions measured from the edge of the cabinet



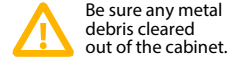
Cabinet	Dimension A	Dimension B
High x Wide (Inches)	Center 7/8" Knock-out Vertical	Center Knock-outs Horizontal
H x W	Half of Sign Height	Half of Sign Width

What You Need:

Phillips Head Screw Driver
5/16" Nut Driver
Appropriate Wall Fasteners
Pencil
Level



Always turn off the power prior to installation.

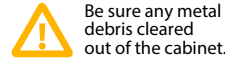
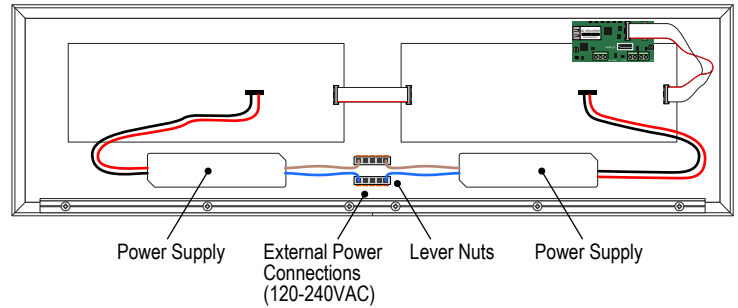


Be sure any metal debris cleared out of the cabinet.

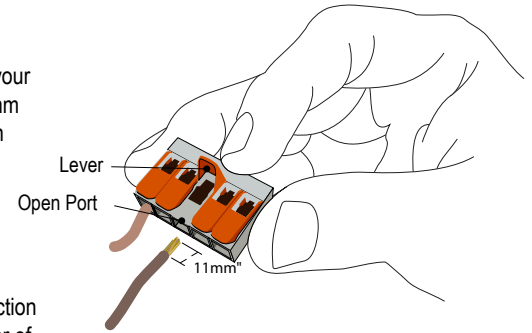
Making your Power Connections

1. Bring input power and communications through separate conduit. Weather-proof all connections made through the cabinet.

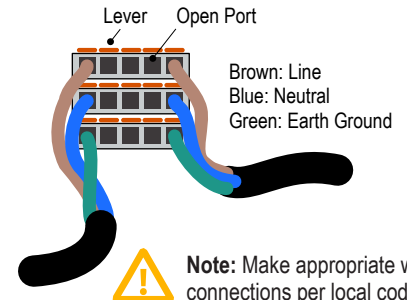
All power terminations should be made using the provided 5-conductor lever-nuts. (No additional wire nuts required).



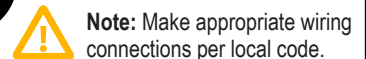
2. Strip the ends of your input wires to 11mm using the guide on the side of one of the lever-nuts.



3. To make a connection pull up on the lever of an open port insert wire conductor and push lever back down to lock wire in place.

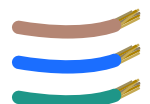


4. You're done with the electrical! Time to move on to the communications connections.



Power Wiring Guidelines

Number of Messages	Typical Wire (Lead) Colors
Line	Brown
Neutral	Blue
Earth Ground	Green

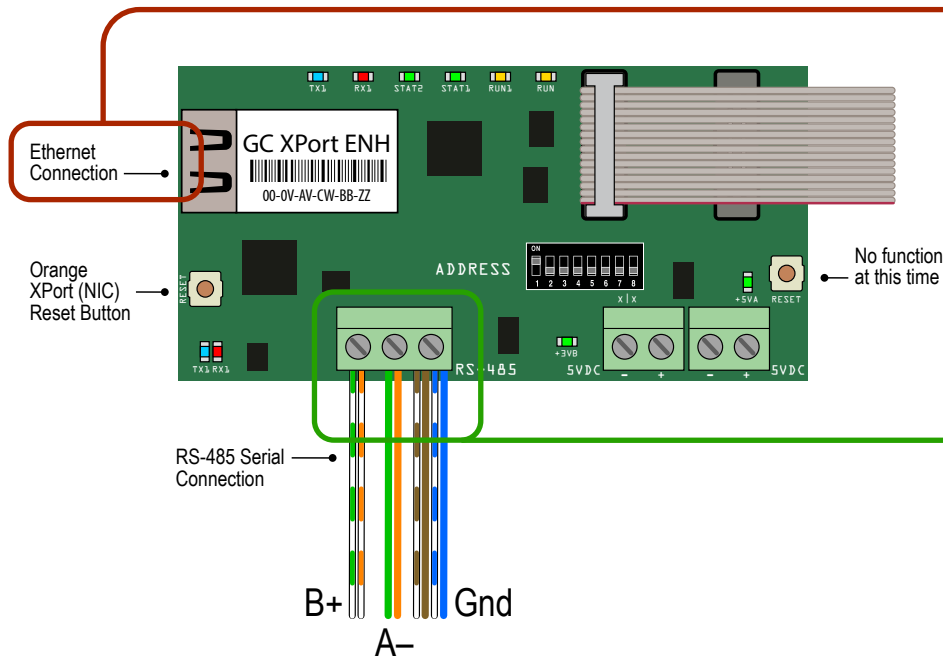


Making your Communications Connection

Instructions:

1. There are two communication inputs on the RGBF controller
Choose your connection method; Ethernet or RS-485

Developers:
Refer to the RGBF Integration Guide for protocol details



Ethernet Connection

7-Segment count display **or** RGBF Bitmap Protocol (see our integration guide)

- 300' Range
- CAT 5/6 Ethernet
- DHCP (default); Static IP addressable via web or Telnet interface
- Default TCP/IP port: 10001

When using Legacy 7-Segment Protocol:
Sign address ("SA") is settable between 1-63 (using on-board binary DIP switches)

OR

RS-485 (Serial) Connection

7-Segment count display protocol only (see compatibility list)

- 4000' Range
- CAT 5/6 (shown above) or shielded RS-485 cable
- Device address settable between 1-63 (using on-board binary DIP switches)

Serial settings:

- 9600 Baud
- 8 data bits, 1 stop bit
- Parity: none

Daisy-chaining Multiple Signs

1. All 7-Segment packets (but **NOT** bitmap images) received on the Ethernet port will be transmitted over the RS-485 serial port. If the application **DOES NOT** use the RGBF Bitmap Protocol, one sign may act as an Ethernet to Serial Bridge for up to 63 devices:



Note: All devices connected via RS-485 **MUST** be set to different Sign Addresses (shown above)

Warning Statements

Note: Make appropriate wiring connections per local code.

Note: Any holes drilled into sign cabinet **MUST** be sealed. Failure to do so may cause a short and void warranty.

Note: This unit contains a built-in CLASS 2 LED driver.

Note: This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electric Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

WARNING: Risk of Fire or Electric Shock. Do Not interconnect output terminations.

AVERTISSEMENT: Risque d'incendie ou de choc électrique. Ne pas interconnecter les terminaisons de sortie.