

## IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure the electricity connections conform to the National Electrical Code and local regulations if applicable.
- Do not mount near gas or electrical heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition. Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.

**SAVE THESE INSTRUCTIONS!**



## INSTALLATION INSTRUCTIONS

### Enclosure Mounting Instructions

1. Remove faceplate and white reflector (if provided).  
For units suffixed with "REN2", refer to installation instructions for "REN2" options.
2. Mount enclosure to wall or ceiling.

### Arrow Selection

3. Carefully knock-out desired arrow(s) from faceplate.

### Electrical Connections

4. Feed input supply wires from unit through knockouts to outlet box in wall or ceiling.
5. Make electrical connections in outlet box in accordance with local building codes.

For 120V input: Use black and white wires

For 277 input: Use orange and white wires

Disregard instructions 6, 9, and 10 when installing an AC sign only.

6. Attach battery leads to battery. Allow battery to charge for 24 hours prior to conducting a 90 minute discharge test.

### Testing

7. When the AC power is applied, the "EXIT" legend will illuminate. For units with batteries, the green "battery charge" indicator will also illuminate, indicating the charging circuit is functioning.
8. Test battery charge condition by depressing the test button located on the bottom of the sign. With a charged battery, the "EXIT" legend will illuminate. Should the "EXIT" legend fail to illuminate, allow battery to charge for 24 hours before attempting another test. Contact the factory if the unit does not function properly after charging the batteries for 24 hours.
9. When operating on emergency power, the green LED will extinguish.

### Caution

- To avoid shadowing of sign face, route and dress all wires around edges and back of the enclosure, and avoid blocking LED's.
- Do not leave excessive lengths of wire inside signs.

### Flashing Specifications

- Units suffixed with REN2 and FB have flashing legend during emergency operation.

### "REN2" Option Emergency Light Installation

1. Remove knock-outs on top or side of enclosure as needed.
2. Fasten lamps to enclosure with hardware provided.
3. Connect one wire from each lamp to the red or purple wire on the back of main circuit board.
4. Connect the remaining wire from each lamp to the blue or yellow wire on the power board.
5. When completed, "REN2" lamps "EXIT" legend will illuminate in emergency mode.

### Self-Testing/Self-Diagnostic Operation (G2 Option)

At predetermined intervals, the Exit Sign will automatically switch into battery mode. Refer to the Self-Test section of this page for timing details. The circuit continuously monitors the operating condition of the AC power, battery supply voltage, transfer and charging circuit. If a failure is detected, visual status will occur immediately via the red UNIT ALERT LED. Pressing the TEST BUTTON three times will remove the fault indication.

### System Monitoring (G2 Option)

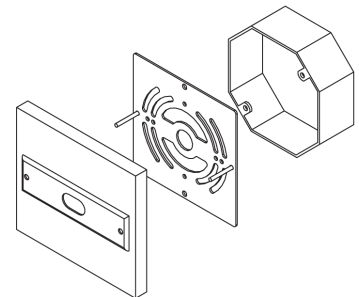
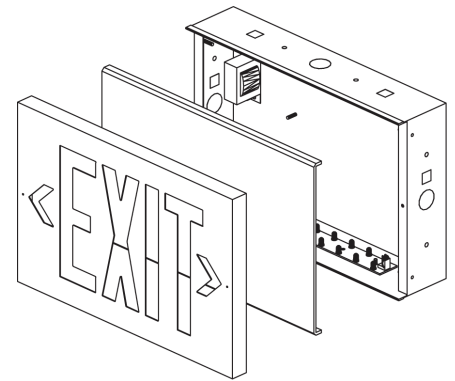
"The Guardian" (G2) circuit utilizes four LED's to provide visual status of the equipment.

**Green "AC ON" LED:** During normal operation, the green status LED will be constantly illuminated, indicating the presence of AC power.

**Yellow "STEADY STATE" LED:** When illuminated, the battery has reached full capacity and the charger is off.

**Red "CHARGER ON" LED:** When illuminated, the battery charger is on. Allow 24 hours for initial charge of a new battery, or newly installed sign.

**Red "UNIT ALERT" LED:** When illuminated, the self-diagnostic feature has detected a unit fault. Refer to Self-Diagnostic section of this page for fault reporting details.



**Self-Test Features**

The EXIT sign will automatically switch to battery mode every 28 days for a period of 5 minutes OR every 6 months for a period of 90 minutes.

**Test Button Features**

- Pressing the “TEST BUTTON” once will switch the unit into battery mode for a period of 2 seconds.
- MANUAL TEST - Pressing the “TEST BUTTON” twice (in rapid succession), will switch the unit to battery mode for a period of 15 minutes. Pressing the “TEST BUTTON” once while the unit is MANUAL TEST mode will cancel the manual test and return to unit to normal AC power.
- RESET – Pressing the “TEST BUTTON” 3 times will reset the red “UNIT ALERT” LED. If multiple faults are present, it may be necessary to repeat this procedure for each remaining fault indicated by the “UNIT ALERT” LED.

**Self-Diagnostic Features**

Refer to the chart below when the “UNIT ALERT” LED is blinking.

Number of Blinks	Unit Fault	Corrective Action
1	Battery is Disconnected	Check battery connections
2	Battery	Replace battery
3	Not Applicable	Not applicable
4	Charger	Check battery then consult factory
5	Transfer (AC to DC)	Check battery then consult factory

Use in accordance with local building codes.