

CHLORIDE SYSTEMS

Fusion

**120 or 277VAC Input
12VDC 72 Watt Output**

Service Questions Call: 910-259-1000



INSTALLATION AND OPERATING INSTRUCTIONS

IMPORTANT SAFEGUARDS

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

All servicing should be performed by qualified personnel only.

Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.

The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

Do not use this equipment for other than intended use.

Do not use outdoors.

Do not let supply cords touch hot surfaces.

Do not mount near gas or electric heaters.

Caution: Halogen cycle lamp(s) are used in this equipment. To avoid shattering: Do not operate lamp in excess of rated voltage, protect lamp against abrasion and scratches and against liquids when lamp is operating, dispose of lamp with care.

Halogen cycle lamps operate at high temperatures. Do not store or place flammable materials near lamp.

Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush acid with fresh water and contact a physician immediately.

CAUTION: To avoid electrical overload, total connected lamp load (factory and field installed) should not exceed output rating.

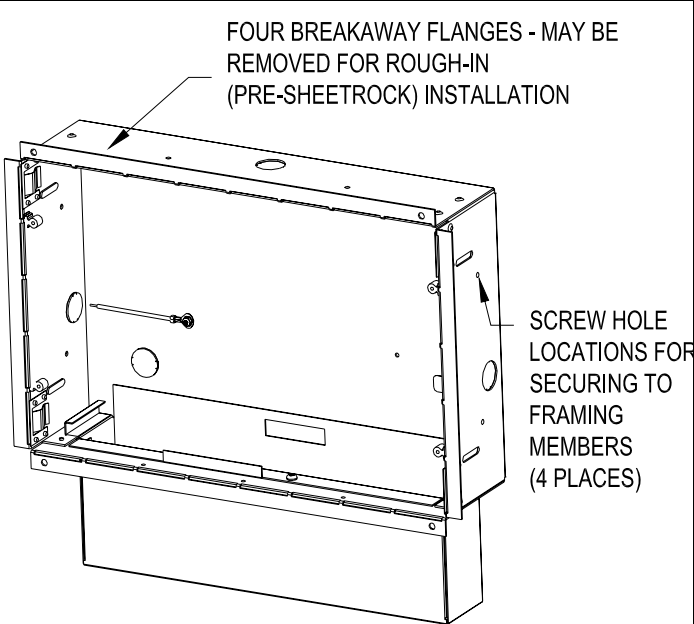
SAVE THESE INSTRUCTIONS

WARNING – Shut off AC power to branch circuits to which units will be connected. All wiring should be per N.E.C. Articles 501-4(b) and local codes.

To maintain warranty, equipment with batteries must be installed or placed on charge within prescribed period after shipment.

GENERAL INSTRUCTIONS

Follow the “Step 1” that is appropriate to the desired mounting orientation. Steps 2 through 7 apply to both wall and ceiling installations.



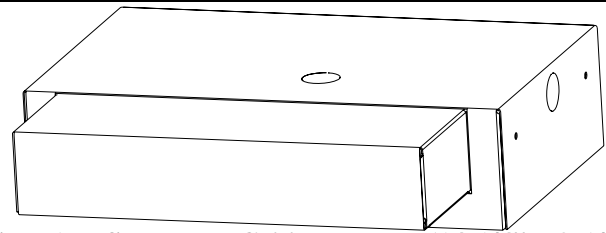
Step 1 - Recessed Sheetrock Wall Mount (14-1/4" x 9-1/8" cutout required)

Remove one knockout in sheetmetal housing for AC service entry.

Unit is attached to studs through holes provided in sides of enclosure.

ATTENTION: Unit must be framed in properly on at least two sides in order to ensure adequate support.

Break away tabs are provided on the edges of the larger sheetmetal box and are recommended to be removed for rough-in installations. These tabs may be removed by bending them until they snap off using large pliers or klines. Beware of any sharp edges remaining after removal. A “Sheetrock Thickness Gauge” is printed on the sides of the housing to help set the box at the correct depth. Line up the edge of the line corresponding to the finished sheetrock thickness with the outer surface of the stud before securing the backbox to the stud. After sheetrock installation, the leading edge of the backbox should be flush with the outer sheetrock surface (room or finished surface).



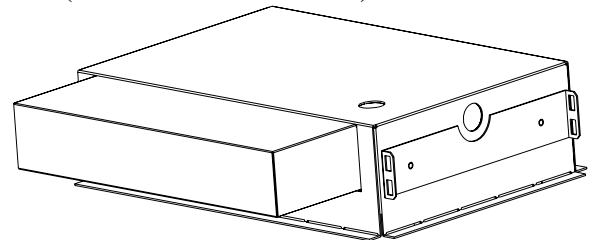
Step 1 - Sheetrock Ceiling Mount (14-1/4" x 9-1/8" cutout required) Note: This product is U.L. approved for use in IC rated ceiling constructions.

Remove one knockout in sheetmetal housing for AC service entry.

Unit is attached to studs through holes provided in sides of enclosure.

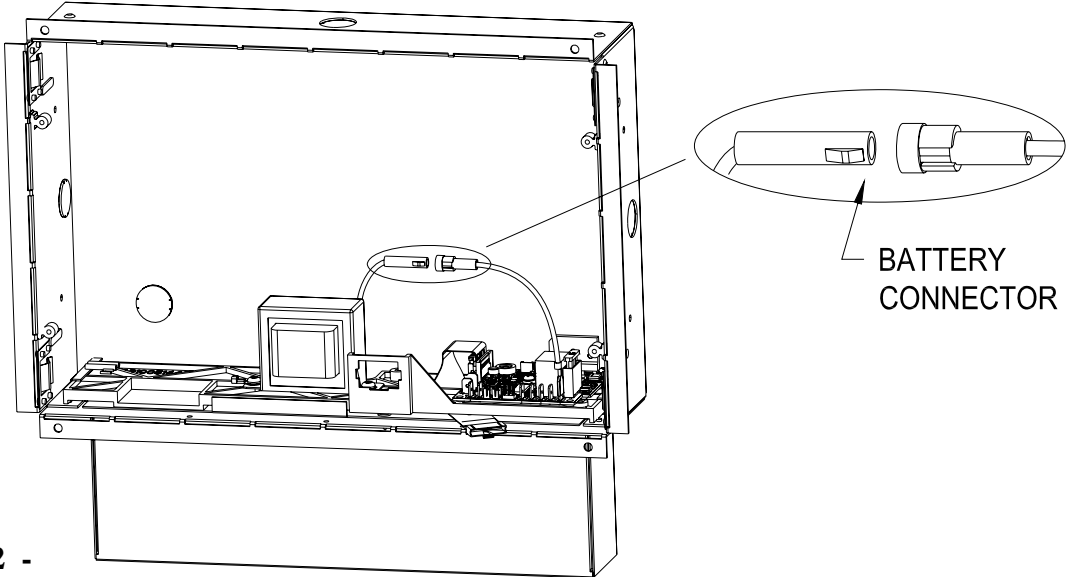
ATTENTION: Unit must be framed in properly on at least two sides in order to ensure adequate support.

Break away tabs are provided on the edges of the larger sheetmetal box and are recommended to be removed for rough-in installations. These tabs may be removed by bending them until they snap off using large pliers or klines. Beware of any sharp edges remaining after removal. A “Sheetrock Thickness Gauge” is printed on the sides of the housing to help set the box at the correct depth. Line up the edge of the line corresponding to the finished sheetrock thickness with the outer surface of the stud before securing the backbox to the stud. After sheetrock installation, the leading edge of the backbox should be flush with the outer sheetrock surface (room or finished surface).



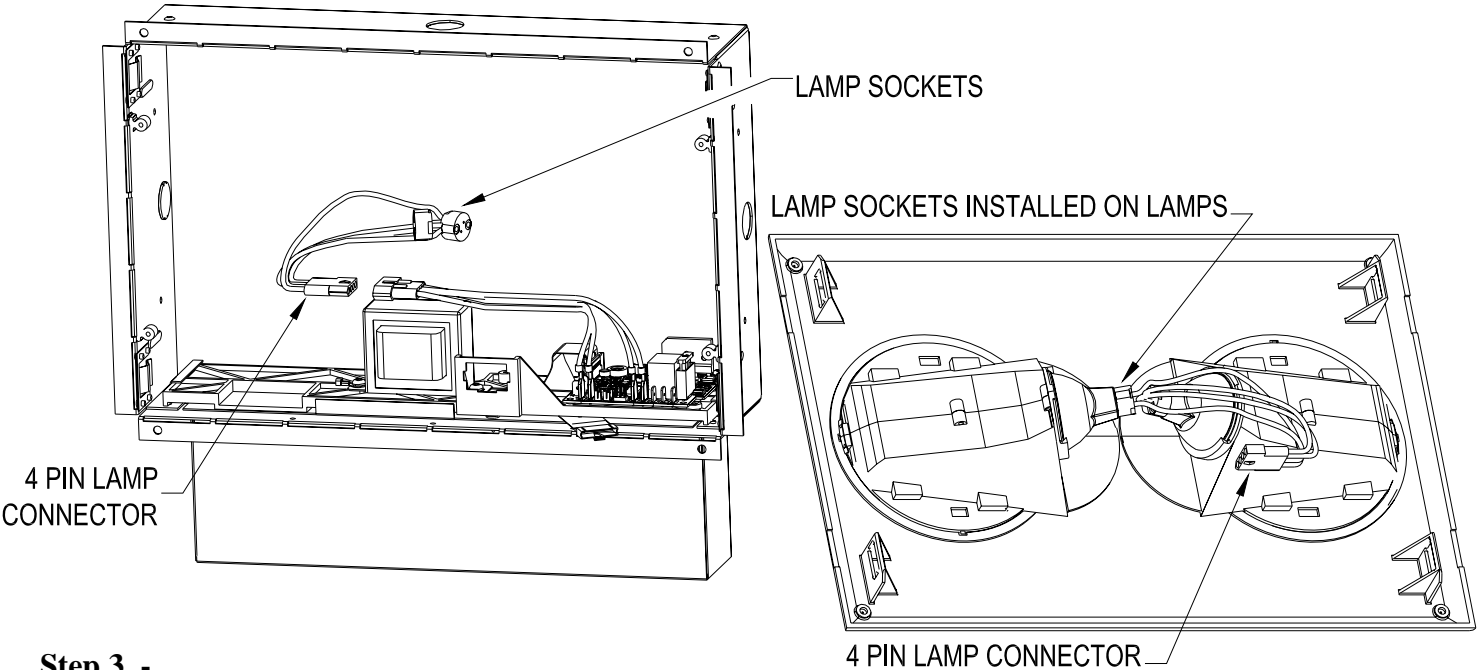
Step 1 - Grid Ceiling Mount (14-1/4" x 9-1/8" cutout required) Note: This product is U.L. approved for use in IC rated ceiling constructions.

(Note: Grid ceiling installation requires Chloride p/n FBHK bar hanger kit.) Remove one knockout in sheetmetal housing for AC service entry. Two grid ceiling adapters are provided – one for each side of the main housing. They are attached to the main housing by removing the four oblong knockouts in the short sides of the main housing and using the four #8 nuts provided. Place bar hangers through the lowest set of holes in the adapters and attach to ceiling grid. Adjust the vertical alignment so that the backbox flanges are flush with the bottom (room side) of the ceiling tile.



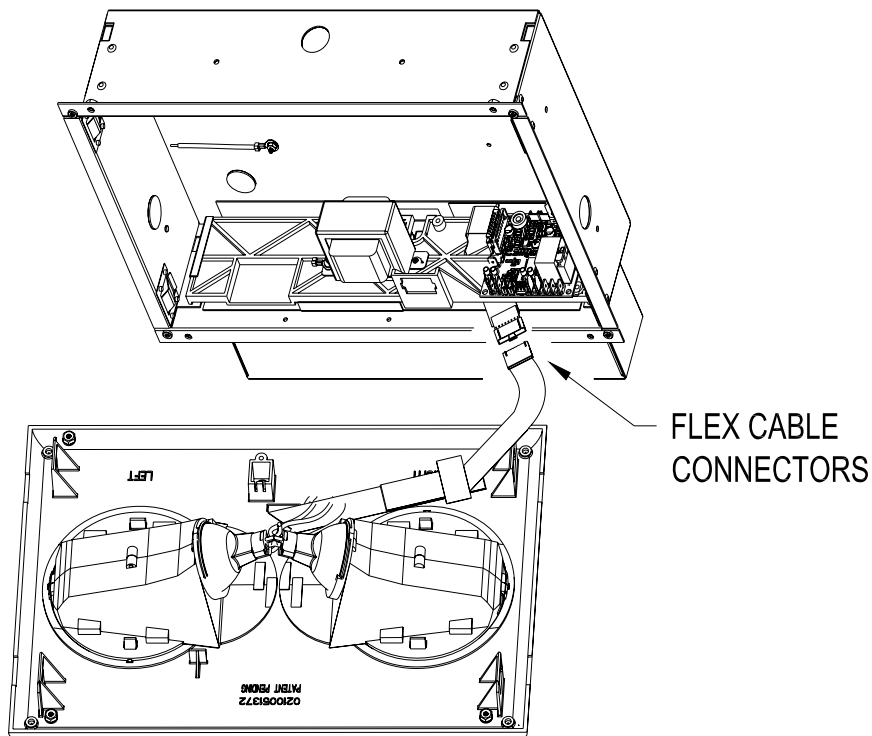
Step 2 - Connect red battery lead by pushing connector halves together (see above illustration). Refer to “AC Hookup” table below for AC supply wiring guide.

AC Hookup	
120VAC Operation	277VAC Operation
White Wire – Common	White Wire – Common
Black Wire – 120VAC Line	Black Wire – Cap Off
Blue Wire – Cap Off	Blue Wire – 277VAC Line
Green Wire - Ground	Green Wire - Ground
CAUTION: Unused primary wire must be insulated to prevent shorting.	

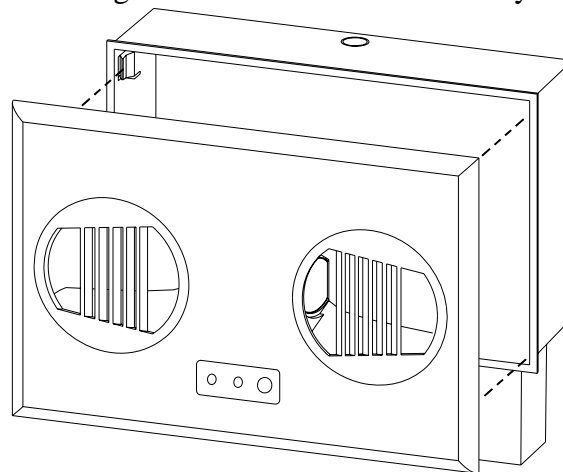


Step 3 - Snap MR-16 lamps into position as shown. Remove 4 pin lamp connector from main housing. Push lamp sockets onto pins on MR-16 lamps.

Note: The reflector/lens system has been designed so that rotation of the system will not be required for most installations. Reflectors and lenses may be rotated 90° if necessary.

**Step 4 -**

Connect flex cable connectors from circuit board assembly and cover together as shown. The flex cable is keyed for proper alignment and locking. Ensure that connector is fully seated. Reconnect the 4 pin lamp connector from Step 3.



Ceiling Mount
Lenses Shown

Step 5 –

Snap front panel onto enclosure. Front panel may be removed by inserting a flat bladed instrument such as a putty knife or screwdriver under the edge and gently prying away from mounting surface.

CAUTION: The halogen lamps used in this product operate at very high temperatures. Care should be taken when servicing unit to avoid burns.

Note:

- A. This equipment is provided with a lockout feature whereby connecting battery leads prior to energizing AC power will not turn on the emergency lamps. After AC power is energized the emergency lamps will turn on upon AC power failure.
- B. This equipment is provided with a low battery disconnect feature which prevents full discharge of batteries. If the building is to be unoccupied for an extended period and AC power is shut off, the batteries should be disconnected from the charger to prevent damage.
- C. The batteries provided in this equipment are sealed and require no maintenance.

SELF DIAGNOSTICS SYSTEM OPERATION

Normal Power-Up Sequence

At power-up, the red and green LED indicators will alternately flash for one to two seconds. Next, the unit will go through a “Power-Up Quick Test” with the green LED flashing quickly. If no power-up faults were detected, the green LED will then flash slowly for up to 36 hours to indicate that the battery is charging. If any faults were detected during the “Power-Up Quick Test”, these will be indicated by a flashing red LED indicator (see below for interpretation of flashing sequences). The red LED may be accompanied by a buzzer if audible diagnostics were ordered. This buzzer may be disabled by a short press of the test switch or by the “SILENCE ALARM” button on the remote tester and will remain disabled for a period of 196 hours. After the fault has been corrected, the red LED flash and buzzer will be cleared automatically and the unit will return to normal operation.

Emergency Operation

Emergency operation occurs when AC power fails. The unit remains in this mode until AC power is restored. During emergency operation, both red and green LED indicators are disabled. Upon restoration of AC power, the green LED will flash for up to 36 hours to indicate that the unit is in battery charging mode.

User Interface

Green LED Indicator

- Steady On – AC power is present and battery is fully charged
- Slow Flash – Battery charging
- Fast Flash – Unit is performing an automatic or manually initiated self-test

Red LED Indicator

- Single Flash – Battery fault
- Double Flash – Lamp failure
- Triple Flash – Charger fault
- Quad Flash – Transfer fault

(If more than one fault condition is present simultaneously, the red LED will flash each fault pattern in sequence, and then repeat)

Red and Green LED Indicators flashing in an alternating sequence

- Fast flashing red and green with audible tone – 277VAC applied to 120VAC input lead. **REMOVE POWER IMMEDIATELY!**

Pushbutton Test Switch

- Long Press (over .5 seconds) – Transfers unit to emergency (battery) operation as long as button is depressed
- Short Press – Initiates various self tests
 - One Press – Cancel and self-test currently running
 - Two Presses – Start 1 minute self-test
 - Three Presses – Start 90 minute self-test
 - Seven presses – Forces a complete system reset

(The unit will allow up to seven 1 minute tests during the first 24 hours of operation. Allow at least 24 hours for battery charging before performing and extended amount of testing)

Buzzer (Option) – Sounds in unison with the flashing red LED if a fault is detected. May be disabled for up to 196 hours by a short press of the test switch (or by pressing the “SILENCE ALARM” button on the remote tester).

IR Receiver – Used with the optional hand-held IR remote tester. (order part number ICIR) to initiate or cancel manual testing.