



# AG-1-C Series Emergency Gimbal Unit

## Installation Instructions

### IMPORTANT SAFEGUARDS

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

#### **READ AND FOLLOW ALL SAFETY INSTRUCTIONS:**

##### **NOT SELF TESTING PER ANSI/NFPA 101**

- Do not use outdoors.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately.
- Equipment should be mounted securely 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.

**CAUTION:** When this equipment is furnished with a halogen cycle lamp, these additional safeguards apply:

- a. 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 lamps with care.
  - b. Halogen cycle lamps operate at a high temperature. Do not store or place flammable materials near lamps.
- The AC voltage rating of this equipment is specified on the product label. Do not connect equipment to any other voltage.
  - Do not use this equipment for other than its intended purpose.
  - Servicing of this equipment should be performed by qualified service personnel.

### **SAVE THESE INSTRUCTIONS**

## INSTALLATION

1. Remove gimbal/lamp assembly from housing by depressing the torsion spring retainer clips and removing them from their brackets inside housing. **NOTE:** Remove any packing material that may have been used for shipping purposes.
  2. Disconnect receptacle from panel mounted plug inside the housing.
  3. Install housing into ceiling using appropriate hanger (Unit comes provided with standard stud ceiling hangers).
    - A) Stud ceiling, adjustable from 16" to 24 "
    - B) Suspended ceiling, straight hanger bars
    - C) Plaster ceiling, none required
  4. Extend an unswitched, 24 hour AC supply of rated voltage to the area in which the unit will be installed. All standard models are furnished with an integral AC junction box and dual voltage 120/277VAC field selectable input. Connect unit to utility power using approved wiring or connector (see Wiring Diagram on back of sheet). For 120V supply connect the utility hot wire to the black lead, for 277V supply, connect the utility hot wire to the orange lead. Connect neutral utility wire to the white lead. Connect green chassis ground wire provided in accordance with local codes. **DO NOT energize circuit at this time.**
- CAUTION:** Insulate the unused black or orange transformer lead. Failure to insulate the unused wire will cause an unsafe condition.
- Note:** (1) A brown lead is used in place of black and orange leads on special models with voltages from 200V to 250 V.  
(2) if a cord is to be installed, follow separate cord set installation instructions.
5. Connect blue lead from battery together with blue lead from plug receptacle using wire nut provided (see Wiring Diagram).
  6. Connect receptacle from gimbal/lamp assembly to panel mounted plug inside housing. **NOTE:** Battery is fully connected at this point, however, the emergency lamp **WILL NOT** illuminate at this time.
  7. Install gimbal/lamp assembly into housing by depressing the torsion spring retainer clips and installing them in their brackets inside housing. Push gimbal/lamp assembly up and into housing until trim ring is flush with ceiling surface.
  8. Energize the AC supply. The **CHARGE** indicator will illuminate.
  9. Adjust and focus the lamp gimbal as required.

## OPERATION

1. To test the equipment, depress the **TEST** switch, which is located behind the gimbal assembly The **CHARGE** indicator will extinguish and the emergency lamp will illuminate.
2. Release the **TEST** switch. The emergency lamp will extinguish and the **CHARGE** indicator will illuminate.

## OPERATION (Continued)

3. The automatic charger will return and maintain the battery in a fully charged state. **NOTE:** Allow the battery to charge for a minimum of 24 hours after installation or after a power failure before conducting a 90 minute test (see **TESTING**). **CAUTION:** This equipment is furnished with a sophisticated solid state transfer switch that will automatically disconnect the emergency lamp from the battery if;
- 1) the battery has been discharged to its low voltage limit
  - 2) The output circuit is overloaded or
  - 3) the output circuit experiences a short circuit condition

## MAINTENANCE

**CAUTION:** Always turn off AC power to the equipment before attempting any service procedure. Servicing should be performed only by a qualified technician.

Use only **MANUFACTURER** supplied or **RECOMMENDED** replacement parts.

1. **BATTERY:** The battery supplied in this equipment requires no maintenance. However, it should be tested periodically (see **TESTING**) and replaced when it no longer operates the unit lamp for the full duration of a 90 minute test. The battery supplied in this equipment will provide its full rated life expectancy when used in a temperature range of 68 to 86°F (20 to 30°C).
2. **OTHER:** Clean lens and replace lamp, as required.

## TESTING

Paragraph 31-1.3.7 of NFPA 101-1985, Life Safety Code requires that all emergency lighting equipment be functionally tested every 30 days for a minimum of 30 seconds and tested once a year for a full 90 minute discharge cycle. Written records of monthly and annual testing are to be kept for examination by the authority having jurisdiction.

## TROUBLESHOOTING

1. **The emergency lamp does not operate:**
  - a. If the charge indicator light is off: Check that the AC supply circuit breaker is on.
  - b. If the charge indicator light is on:
    - Check the battery for proper connection.

