Installation Instructions
NX-617-LED
Wet Location LED Exit Sign

**WARNING** - This equipment is intended to be installed only by qualified personnel. The installation must be made in accordance with the current edition to the National Electric Code and all applicable state and local building codes. The final installation must be approved by the appropriate qualified electrical/building inspector(s). Improper installation may result in a fire or electrical hazard. Be sure the electrical power to the circuit has been disconnected before installing this electrical system.


**IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

1. Review the diagrams thoroughly before beginning.
2. All electrical connections must be in accordance with local codes, ordinances, and the National Electric code.
3. Disconnect power at fuse or circuit breaker before installing or servicing.
4. Do not use outdoors.
5. Do not mount in hazardous locations, or near gas or electric heaters.
6. Do not let power cords touch hot surface.

**MAINTENANCE**
Always disconnect power at fuse or circuit breaker before installing or servicing. servicing should be performed only by qualified personnel.

**BATTERY**
- Should be tested periodically and replaced when it no longer meets the required duration of 30 seconds or 90 minutes. Battery needs to be recharged if product is kept in stock over 9 months.

**OPERATION**
1. Apply AC power to the unit, the indicator should show red.
2. Push the test switch, the LED indicator turns off and the LED board stays on.
3. After releasing the test switch, LED indicator turns back to red.

**ROUTINE TESTING**
National Electric Code (NEC) and NFPA life safety code regulations require that routine tests need to be performed as below:
- Once every month, perform 30 seconds duration test, push in and hold the test switch to perform a full 90-minute test.
- Disconnect AC power supply and switch to emergency mode, the unit should stay on 90 minutes minimum.

**BATTERY STOCK AND RECHARGE GUIDELINE**
Emergency fixtures use maintenance free batteries. When a fixture is on the shelf (stored) before installation, all battery types need regular discharge and recharge to avoid battery deterioration. Deterioration can result in permanent capacity loss or complete Battery failure, emergency fixture manufacturer cannot provide quality warranty for battery if do not operate proper maintenance before installation.

- **Leak-Acid battery**: Shell life = Recharge Required = 3 months.
- **Ni-Cad and Ni-MH battery**: Shell life = Recharge Required = 9 months.
- **LiFePO4 battery**: Shell life =Battery Charge Required = 12 months
- **Emergency Fixture in Stock**
  When a fixture is on the shelf (stored) before installation, battery must not connect to PCBA to avoid self-discharge, battery must keep disconnect status before installation.
  If battery connect to PCBA without charge battery for over 10 days, battery will be deteriorate because of battery self-discharge properties, and cannot recover to original capacity.

**BATTERY SAFETY INFORMATION**
- Proposed long term storage temperature in 15°C ~25°C, humidity in 45-85% for all type battery.

**SAVE THESE INSTRUCTIONS**

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WIRING DIAGRAM

White = NEUTRAL
Black = 120V/AC
Orange = 277V/AC

Battery

1. Connect the white wire to neutral.
2. If using 120V, connect the black wire to hot lead.
   If using 277V, connect the orange wire to hot lead.
3. Cap the unused lead.

WALL MOUNT INSTRUCTIONS

1. Open front cover by screwdriver.
2. Knock out center and appropriate mounting screw holes on the black plate, paste
gasket on back of back plate.
3. Feed building power supply wires through the center hole, fix back plate to waterproof
type junction box by screws.
4. Make correct electrical connections inside of fixture according to wiring diagram.
5. Push excess wire into junction box.
6. Attach battery connector to PC board.
7. Snap chevron to EXIT panel if required, restore front panel on unit.

SIDE MOUNT INSTRUCTIONS

1. Attach crossbar to junction box, set the short blade is
touching the waterproof type junction box.
2. Open front cover by screwdriver.
3. If double face is desired, replace back plate with additional face plate provided.
4. Knock out the mounting hole on the top or side of the unit, assemble the canopy
on the unit (See Canopy Assembly).
5. Route the proper wires through mounting hole out of housing.
6. Make electrical connections inside the junction box as wiring diagram.
7. Fasten crossbar on the junction box by screws provided.
8. Paste gasket on canopy, then fasten canopy to crossbar and against to the wall.
9. Snap chavron to EXIT panel if required.
10. Attach battery connector to PC board, restore front panel on unit.

CANOPY ASSEMBLY

Nut
Thread Pipe
Gasket
Canopy
Gasket
Housing

Battery Connector
Junction Box
(Not Provided)
Housing
Front Cover
Clear Cover
Canopy
Gasket
Crossbar

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HEATER PAD WIRING DIAGRAM

120VAC Supply
1. Connect neutral wire to white wire from heater pad by wire nut,
2. Connect 120V hot wire to black wire from heater pad by wire nut.
3. Cap unused orange wire by wire nut.

227VAC Supply
1. Connect neutral wire to white wire from heater pad by wire nut,
2. Connect 277V hot wire to orange wire from heater pad by wire nut.
3. Cap unused black wire by wire nut.

Heater Pad (120/277VAC)

Orange Wire
Black Wire
White Wire

Orange Wire (227VAC)
Black Wire
White Wire
White wire (Neutral)

WARNING - DO NOT MAKE WRONG CONNECTION. BLACK WIRE (FOR 120V) AND ORANGE WIRE (FOR 277V) MUST NOT BE USED AT THE SAME TIME.