

Emergency Exit Sign for use in Hazardous (Classified) Locations

Installation and Maintenance Manual

Model E2115

THT-EX

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1. General Information

Model E2115 LED Emergency Exit Sign are suitable for use in the following areas as defined by the National Electrical Code (NEC) and Canadian Electrical Code (CEC):

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 2, Groups F, G
- Wet Locations

Refer to the Emergency Exit Sign nameplate for specific classification information, maximum ambient temperature suitability and corresponding operating temperature (T-Code).

Model E2115 LED Emergency Exit Sign is designed for using in indoors and outdoors environment.



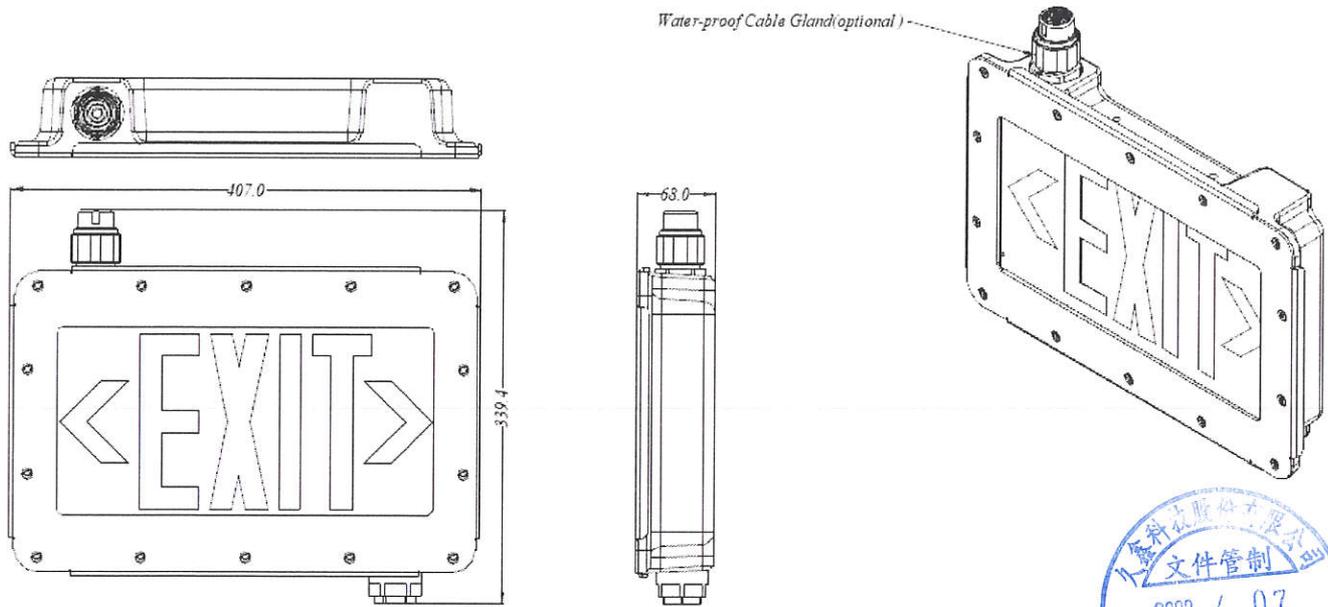
Rated Voltage: 120~277 Vac, 50 & 60 Hz
Rated Wattage: 32.5W
Ambient Temperature Range: 5°C ~ +40°



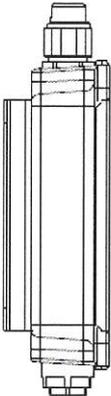
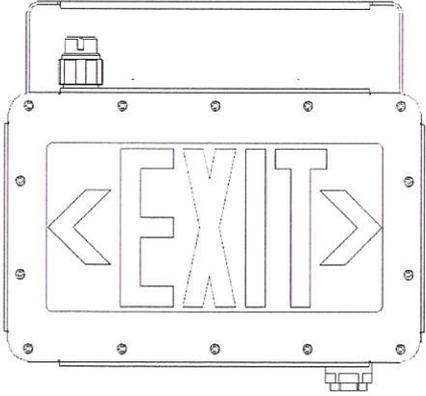
WARNING

- ▶ To avoid the risk of fire, explosion or electric shock, this product should be installed, inspected and maintained by a qualified electrician only, in accordance with all applicable codes and regulations.
- ▶ To avoid electric shock:
 - ✓ Be certain electrical power is OFF before and during installation and maintenance.
 - ✓ Emergency Exit Sign must be supplied by a wiring system with an equipment grounding conductor suitable for the specific locations in accordance with the NEC and CEC.
- ▶ To avoid explosion:
 - ✓ Make sure that the supply voltage is the same as the luminaire voltage.
 - ✓ Do not install where the marked operating temperatures exceed the ignition temperature of the atmosphere.
 - ✓ Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
 - ✓ All O-rings and gasket seals must be clean and undamaged.
 - ✓ Before installation and dismantling, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.
- ▶ To avoid burning hands, ensure the luminaire is cool when performing maintenance.
- ▶ Customers should install and charge within one month after receiving the lighting.
- ▶ Do not let power supply cords touch hot surfaces.
- ▶ Do not mount near gas or electric heaters.
- ▶ Equipment should be mounted in locations and at heights where it will not be 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 its intended use.

2. Dimensions (All Dimensions in mm)



3. Technical Data

Item	Description	
Rated Voltage	120 Vac~277 Vac ($\pm 10\%$), 50 & 60 Hz (Note information on type label)	
Wattage	AC: 32.5W,	
Battery Pack	Li Battery Pack	
Charging time	24 hr.	
Runtime of emergency mode	90 minutes	
Color of LED light	5000K $\pm 10\%$ (Cool White)	
Ambient Temperate Range	5°C ~ +40°C	
Material	Aluminum alloy	
Enclosure	Heat and impact resistant tempered glass	
Glass		
LED Service Life	60,000 hrs	
Mounting Type / Weight	Wall Mounting	Ceiling Mounting
		
	6.3kg	6.3 kg

4.1 Electrical Connection

Overview of Electrical Connection

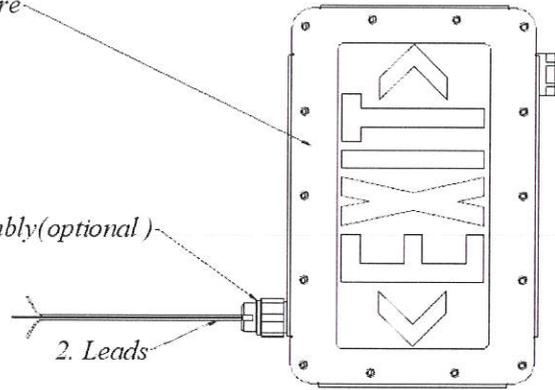
Fix and Introduce the wires of luminary with the terminal post of Junction Box (White-wire connects to Neutral; Red-wire connects to Live; Green-wire connects to Ground.)

1: E2115 Lighting fixture	2: Leads (Length: min, 18 inches)	3: Nipple Assembly
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1. E2115 Lighting fixture

3. Nipple Assembly (optional)

2. Leads



1. Insert the field wiring leads (2) through the conduit (not shown, provided in the field).
2. Connect conduit to 3/4 in, NPT external threads of adapter with at least five full threads engaging.
3. Connect branch conduit wires to luminaire wiring necessary raceway component, boxes and fitting required per NEC and CEC. (White-wire connects to Neutral; Red-wire connects to Live; Green-wire connects to Ground.)

4.2 Mounting Bracket Installation (Wall / Ceiling Mounting Bracket)

- ☞ The mount bracket is for the use of both Wall mount (Figure 1) and Ceiling mount (Figure 2).
- ☞ Position the bracket holders and fix it by means of the provided M8 screws, 60 kgf-cm.
- ☞ Secure the Wall/Ceiling mounting bracket to the structure by using fasteners (not provided)

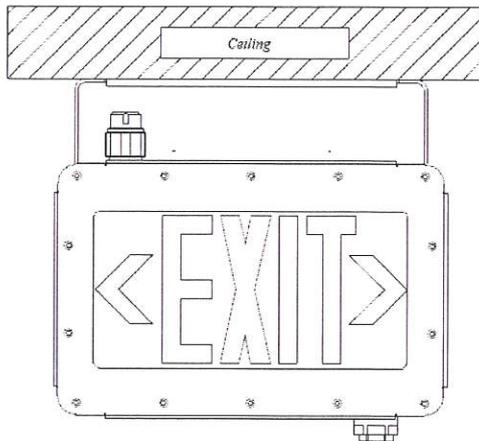


Figure 1

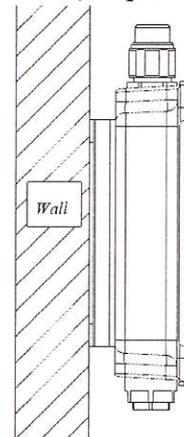


Figure 2

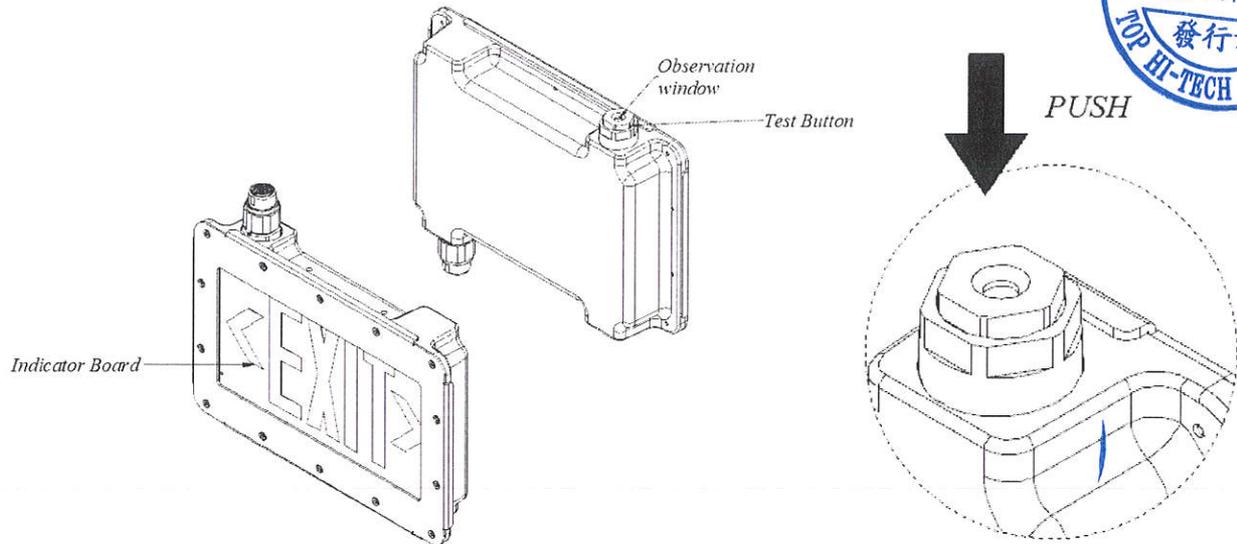
4.3 Putting into Service

Before putting into operating, it's necessary to ensure that:

- ☞ the lighting is correctly installed.
- ☞ the connection has been correctly made.
- ☞ the field wiring has been made per NEC and CEC requirement.
- ☞ the lighting fixture needs to be charged for 24 hours and it can provide 90 minutes emergency illumination after fully charged

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4.4 Test Emergency Lights



Test emergency lighting system for proper operation

- ☞ Indicating light should be operating.
- ☞ Momentarily press the push button and observe - emergency lights should be operating.
- ☞ If emergency lights do not operate initially, allow battery to charge for at least 3 hours or more, then repeat the test procedure.
- ☞ When press the push button, if the light source cannot be illuminated, please contact the factory to replace the LED or Battery or electronic component.

5. Maintenance

- ▶ To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.
- ▶ Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However, it is recommended that checks be made at least once a year. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B: Recommended Practice for Electrical Equipment Maintenance.
- ▶ The lens should be cleaned periodically to ensure continued lighting performance. Clean the lens with a clean, damp, non-abrasive, lint-free cloth. If this is not sufficient, use a mild soap or a liquid cleaner. Do not use an abrasive, strong alkaline or acid cleaner as damage may occur.
- ▶ Inspect the cooling fins on the luminaire to ensure that they are free of any contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
- ▶ Electrically check to make sure that all connections are clean and tight.
- ▶ Mechanically check that all parts are properly assembled.
- ▶ Do not attempt to service the battery. For replacement, contact the factory.

6. Transport, Storage and Disposal

- ▶ Transport and storage is only allowed in the original packaging, on the way pointed out on the carton box.
- ▶ Transport – Shock-free in its original carton, do not drop, and handle carefully.
- ▶ Store – Store in a dry place in its original packaging.
- ▶ Disposal – Ensure environmentally friendly disposal of all components according to the legal regulations.