

**mcPhilben Emergency Unit**

**HX Series**  
Class I & II, Div. 2 LED Exits  
(Combination Emergency Exit)



**Specifier's Reference**

Project
Type
Model No.
Comments

**application**

- The mcPhilben HX series is a combination emergency exit suitable for hazardous locations.

**codes and standards**

- UL 924 listed
- UL 844 listed
- NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
- Temperature Rating (T-Rating) 160° (T3C)
- Class I, Division 2, Groups A, B, C & D
- Class I, Zone 2 T-Rating 200° (T3), Groups IIA, IIB (+H<sub>2</sub>) & IIC
- Class II, Division 2 Areas, Groups F & G

**voltage input**

- 120/277 VAC selectable input.

**battery**

- Maintenance free, sealed lead calcium battery. Battery has an estimated service life of 5 years, and an operating temperature range of 65° F(19° C) to 85° F(30° C). Batteries supply 90 minutes of emergency power.

**housing**

- Constructed of corrosion-resistant materials featuring fiberglass-reinforced industrial gray housing with stainless steel hardware and a clear polycarbonate cover. A one-piece formed gasket prevents the potential for seal failure. Standard internal mounting or external mounting feet for installation flexibility.

**advanced self-diagnostics (standard)**

- The Advanced Self-Diagnostics charging system is microprocessor controlled with surge protection, brownout, AC lockout and low voltage disconnect features are standard on all models.

**self-testing diagnostics (optional)**

- Optional diagnostics/charging circuitry performs a self-test monthly, and during the sixth and twelfth months. A one-minute or 90 minute test may be initiated via pushing the test button or using the handheld test device, SRT.

**lamp data**

- Illumination of the stenciled exit face is accomplished with long lasting, high output LEDs, producing an average illumination level in excess of 25f(85.7 cd/m<sup>2</sup>) at the end of the 90 minute emergency run time. The LEDs shall be designed so that the unlikely failure of one LED will not affect the integrity of the total sign in the emergency mode.

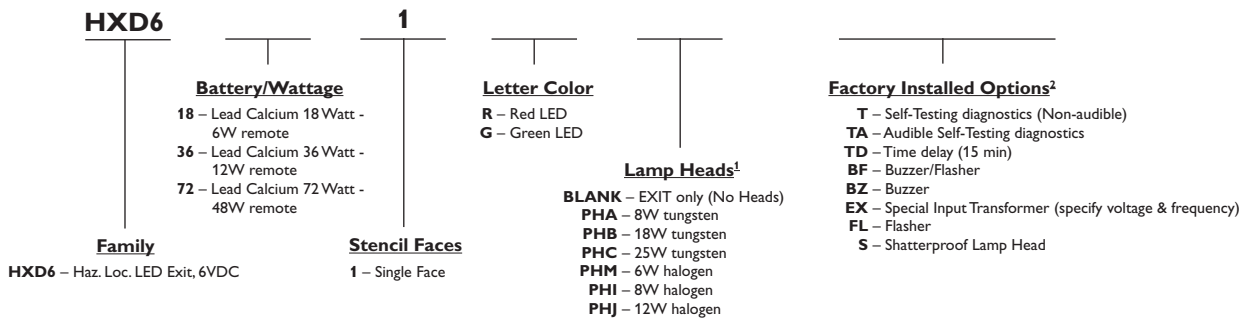
**mounting**

- Standard internal mounting or external mounting feet for installation flexibility.

**warranty**

- Five year warranty on unit. (Lamps not included).

**Green Product Choice: HXD6181R**



**Accessories**

- SRT – Infra Red Remote Tester
- WG5 – Wire Guard

**Footnotes**

<sup>1</sup>All lamp heads are 6VDC sealed beam PAR 36.  
<sup>2</sup>Some option combinations may impact UL listing. Consult factory for specifics.

# HX SERIES Class I & II, Division 2 LED Exits (Combination Emergency Exit)

## Electrical Specifications

### 6V 18W Red or Green

120 VAC, 60 Hz, 0.133 A, PF = 0.80

277 VAC, 60 Hz, 0.058 A, PF = 0.80

### 6V 36W Red or Green

120 VAC, 60 Hz, 0.122 A, PF = 0.70

277 VAC, 60 Hz, 0.053 A, PF = 0.70

### 6V 72W Red or Green

120 VAC, 60 Hz, 0.129 A, PF = 0.80

277 VAC, 60 Hz, 0.056 A, PF = 0.80

## Audible/Non-Audible Diagnostics

Advanced Self-diagnostics is equipped with an audible user interface confirmation standard.

However, the audible diagnostics feature is a selectable option. Standard diagnostics equipment offers visual verification of the equipment readiness through the flashing sequence of the RED LED in the following manner:

Fault condition status, number of RED flashes:

1 X - Battery Fault

2 X - Lamp Failure

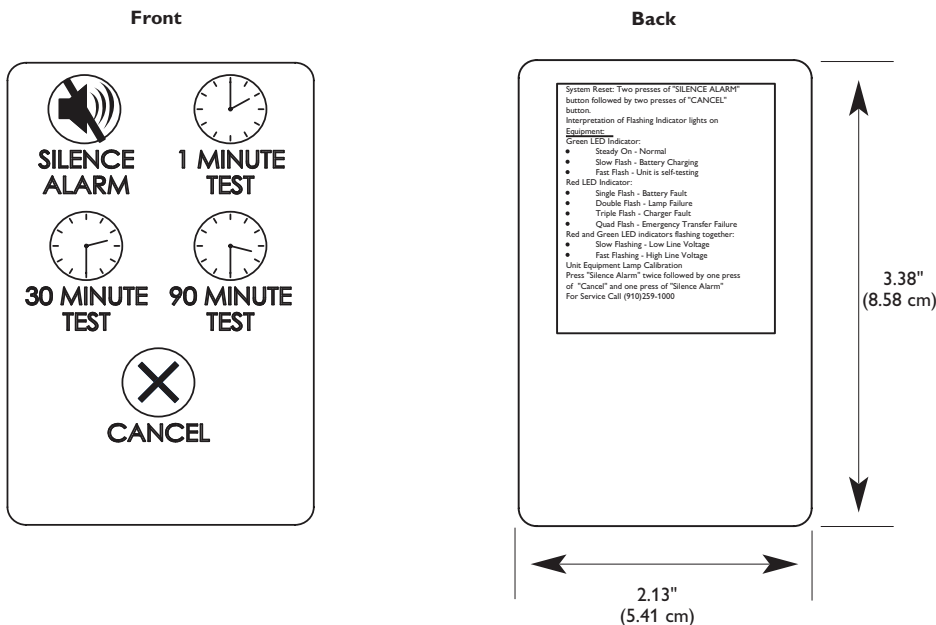
3 X - Charger Fault

4 X - Transfer Fault

Both RED and GREEN LED's fast toggle - AC line over-voltage

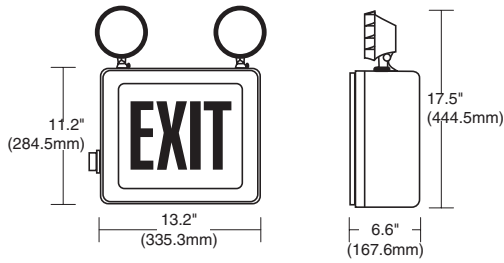
Both RED and GREEN LED's slow toggle - AC line under-voltage

## Dimensions for SRT (infra-red remote tester)



**OPERATING TEMPERATURE –**  
Standard Location: 65°F (18°C) to 85°F (29°C)  
Damp Location: 32°F (0°C) to 104°F (40°C)

## Dimensions

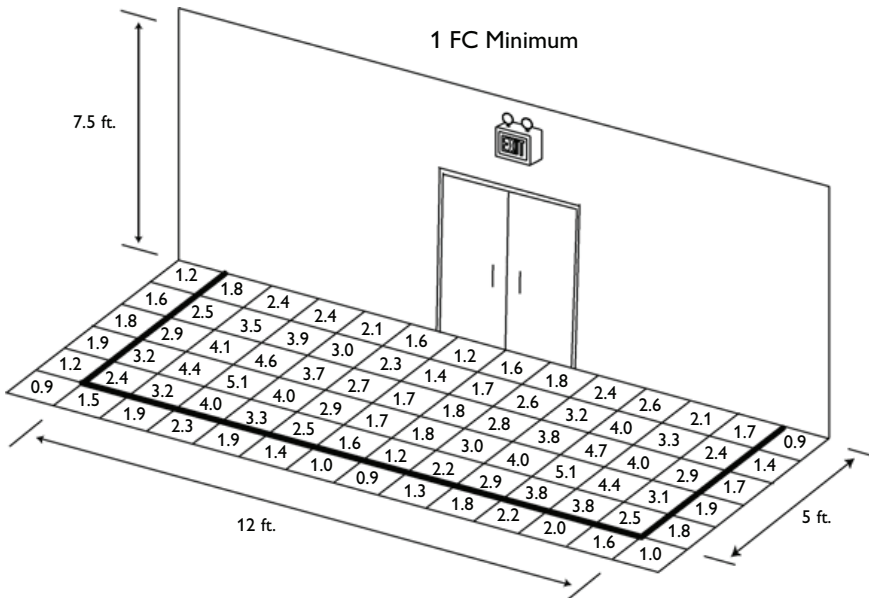


EXITS and Combos with Lead Calcium battery

## Additional Features

- Illumination** – Illumination of the exit stencil face is accomplished with long lasting, high output, direct view LED's. The combination emergency exit version has two lamp heads mounted on top of the unit.
- Battery** – Maintenance free, sealed nickel cadmium battery has an estimated service life of 5 years, and an operating temperature range of 65°F (19°C) to 85°F (30°C).
- Electronics** – The Advanced Self-diagnostic charging system is microprocessor controlled with surge protection, brownout, AC lockout and low voltage disconnect features and is standard on all models. Refer to page 620 for details.
- Self Testing Diagnostics** – Optional diagnostic/charging circuitry performs a self-test monthly, and during the sixth and twelfth months. A one-minute or 90-minute test may be initiated via pushing the test button or using the handheld test device, SRT.

Optics\* (IES formatted files are available on-line)  
 Wall mounted 7.5' AFF, 6Volt 12Watt Halogen Lamps Represent (PHJ)




Average initial footcandles at floor = 2.89  
 Maximum initial footcandles at floor = 5.1  
 Minimum initial footcandles at floor = 1.2  
 Maximum to minimum ratio = 4.25



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Contact Factory for Additional Configurations.  
Specifications are subject to change without notice.  
Consult website for latest version of this spec sheet.

 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)