

The CH900E Series LED illuminated Edge-lit EXIT is City of Chicago Fire Code Approved and available in surface or recessed and single or double faced configurations to fit any application.

Model: \_\_\_\_\_ Date: \_\_\_\_\_  
Accessories: \_\_\_\_\_  
Job Name: \_\_\_\_\_ Type: \_\_\_\_\_

**FEATURES AND BENEFITS**

- Meets City of Chicago Emergency EXIT requirements
- Exit illuminated with high-output, long-life white LEDs
- Recessed and surface mount
- Assembled in USA with global components

**SPECIFICATIONS**

**Illumination:** Exit illuminated with high-output, long-life white LEDs

**Construction:** Extruded aluminum surface mount housing, or steel recessed mount housing with aluminum trim plate, acrylic panels

**Input:** 120/277VAC dual primary, 60Hz input

**Battery:** Maintenance-free lead calcium battery

**Run Time:** 90 Minute emergency run time, 24 hour recharge time

**Electrical:** AC lockout, low voltage disconnect, brownout, overload and short circuit protection

**Mounting:** Recessed and surface mount

**Finishes:** Black, Brushed Aluminum or White

**Options:** G2 - Guardian Self-test/Self-diagnostics

**Warranty:** Any component that fails due to a manufacturing defect is guaranteed for five years, with a five year prorated warranty on the battery. The warranty does not cover physical damage, abuse or instances of uncontrollable natural forces. See the full Exitronix warranty document for detailed information. (Terms and conditions apply)

**AVAILABLE WHILE SUPPLIES LAST**



**ORDERING INFORMATION** Example: CH903E-R-WB-WH-G2-18

Series	Mounting	Power Source	Finish	Options (Factory Installed)	Panel Code <sup>3,5</sup>	
					Single Face	Double Face
CH902E = Singleface	R <sup>2</sup> = Recessed	LB = AC Only	BL = Black	G2 <sup>4</sup> = Self-test/Self-diagnostics	3 = Exit	18 = Exit
CH903E = Doubleface	S <sup>1</sup> = Surface	WB = With Battery	BA = Brushed Alum. WH = White		6 = Exit ▶	21 = Exit ◀ or ▶
					9 = Exit ◀	24 = Exit ◀ ▶
					12 = Exit ◀ ▶	17 = Stairs
					2 = Stairs	20 = Stairs ◀ or ▶
					5 = Stairs ▶	23 = Stairs ◀ ▶
					8 = Stairs ◀	
					11 = Stairs ◀ ▶	
<b>Notes</b>					<b>Accessories<sup>6</sup> (Field Installed)</b>	
<sup>1</sup> Includes canopy					ER1-KIT = 1' Pendant Mount Kit	
<sup>2</sup> End mount not available on recessed units					ER2-KIT = 2' Pendant Mount Kit	
<sup>3</sup> All panels supplied with red letters on a white background						
<sup>4</sup> G2 option comes standard with NIMH Battery, not available with LB unit						
<sup>5</sup> Only Exit Panels conform to UL standards						
<sup>6</sup> Order as separate line item						

## CONSTRUCTION

Housing - available in either a brushed aluminum finish or powder coated.

Surface Mounting: Engineering grade aluminum extrusion with mounting canopy

Recessed Mounting: Galvanized steel housing supplied with an adjustable bar hanger assembly

Panels - Constructed of high quality acrylic for maximum light output. Panel code determined at time of order.

## ILLUMINATION

Illumination of the CH900E series is accomplished utilizing high-intensity, long-life LEDs. LEDs are a maintenance-free solution, providing up to 100,000 hours of use without failure.

## ELECTRICAL

### Input

Dual-voltage input 120 or 277VAC @ 60Hz.

### Lead Calcium Battery (WB)

Extronix lead calcium batteries are maintenance-free.

### Nickel-Metal Hydride - NiMH (With G2 option only)

Extronix NiMH batteries are maintenance-free.

### Emergency

The CH900E Series exit will operate for a minimum of 90 minutes during a loss of power with a 24 hour maximum recharge time for the battery.

### Brownout Circuit

Brownout circuit monitors the line voltage. As the line voltage sags and can no longer illuminate the exit sign to meet UL 924 visibility test, the emergency circuit will turn on to supply a portion or all the power to illuminate the sign for 90 minutes until the line voltage is restored.

### Low Voltage Disconnect

Low Voltage Disconnect (LVD) measures the battery terminal voltage. The LVD continuously monitors the battery terminal voltage and if it should fall below a preset voltage threshold, the LVD will disconnect the load. When the battery is recharging and voltage is raised above another preset voltage threshold, the load is automatically reconnected.

### Solid-State Transfer

The circuit features Solid-state switching for emergency lamps, eliminating concerns of damaged contact or mechanical failures associated with relays. The switching circuit detects a loss of line voltage and automatically switches to emergency mode.

### Overload and Short-Circuit Protection

The overload monitoring system is a Solid-state circuit which monitors the lamp load and disconnects from the battery should an overload or short circuit occur. The overload current protection eliminates the need for fuses or circuit breakers for the DC load.

### Test Button

The test button is easy to locate and provides manual verification of the transfer circuit and emergency lamps.

## INSTALLATION

Installs in minutes with easy-to-read instructions and detailed diagrams. No special hardware or tools necessary. Internally housed components and battery.

### Assembled in the USA (Standard)

Assembled in the USA and is in full compliance with the American Recovery and Reinvestment Act of 2009 (ARRA) requirements and Buy American provisions.

### Guardian Self-test/Self-diagnostics (Option: G2)

The Guardian circuit continuously monitors the operating condition of the AC power, battery supply voltage, emergency lamp continuity and charging circuit.

The purpose of this option is to provide visual signaling in response to a fault with the EXIT sign battery and/or battery charger. If a failure is detected, visual status will occur immediately via the CHARGER LED and/or the BATTERY FAULT LED. The LEDs will stay illuminated until the fault is corrected.

The Guardian circuit also monitors the transfer circuit as well as performing automatic code compliant testing. The Guardian circuit will perform a 30 second discharge and self-test every 28-30 days. A 90 minute discharge and self-test is performed every six months.

## DIMENSIONS

