

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

- Meets City of Chicago Emergency EXIT requirements
- Extruded aluminum surface mount housing, or steel recessed mount housing with aluminum trim plate
- Acrylic panels
- Exit illuminated with high-output, long-life white LEDs
- AC lockout for ease of installation and installer protection
- Charge rate/power "ON" LED indicator light with test button
- Maintenance-free sealed lead acid battery
- Recessed and surface mount
- 90 minute emergency run time, 24 hour recharge time
- Specify panel code when ordering
- Optional Guardian Self-Test/ Self-Diagnostics (G2) available
- 120/277V dual primary, 60Hz input
- Standard finishes: Black, White or Brushed Aluminum
- Assembled in U.S.A.



WARRANTY

Any component that fails due to manufacturer's defect is guaranteed for 5 years, with a 5 year pro-rated 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.



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

Series	Mounting	Power Source	Finish	Options (Factory Installed)	Panel Code ^{3,5}	
CH902E = Single Face	R ² = Recessed	LB = AC Only	WH = White	G2 ⁴ = Self Test / Diagnostics	Single Face	Double Face
CH903E = Double Face	S ¹ = Surface	WB = With Battery	BL = Black		3 = Exit	18 = Exit
			BA = Brushed Alum.	Accessories⁶ (Field Installed)	6 = Exit ►	21 = Exit ◀ or ►
Notes				ER1-KIT = 1' Pendant Mount Kit	9 = Exit ◀	24 = Exit ◀►
¹ Includes canopy				ER2-KIT = 2' Pendant Mount Kit	12 = Exit ◀►	17 = Stairs
² End mount not available on recessed units					2 = Stairs	20 = Stairs ◀ or ►
³ All panels supplied with red letters on a white background					5 = Stairs ►	23 = Stairs ◀►
⁴ G2 option comes standard with NIMH Battery, not available with LB unit					8 = Stairs ◀	
⁵ Only Exit Panels conform to UL standards					11 = Stairs ◀►	
⁶ Order as separate line item						

CONSTRUCTION

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

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.

Sealed Lead Acid Battery - SLA (WB)

Extronix sealed lead acid batteries are maintenance-free with a life expectancy of 5 years. Sealed lead acid batteries provide a relatively large power-to-weight ratio making them ideal for emergency applications. Lead Acid batteries perform optimally in temperatures ranging from 59°F - 104°F (15°C - 40°C).

Sealed Nickel-metal Hydride - NiMH (With G2 option only)

Extronix NiMH batteries are maintenance-free with a life expectancy of 15 years. NiMH batteries perform optimally in temperatures ranging from 32°F to 104°F (0°C to 40°C).

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 UL924 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 shall 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 U.S.A. (Standard)

Assembled in the U.S.A. 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 at 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 6 months.

CONFORMANCE TO CODES & STANDARDS

The CH900E Series meets or exceeds the following: U.L. 924, N.E.C. requirements and N.F.P.A. 101.

DIMENSIONS

