

## CLASS 1 & 2 DIVISION 2 LED COMBINATION EMERGENCY / EXIT COMBINATION

### PRODUCT OVERVIEW

The HZA1R Series Combination LED Exit Sign and Emergency Lights combined energy-saving LED technology, with the safety of an exit sign and emergency lighting combination, and a durable enclosure suitable for hazardous locations.

The HZA1R Series is UL listed for use in Class 1, Division 2 and Class II, Division 2 areas. The HZA1R-C Series LED Exit offers several levels of protection against the elements, including dust, dirt and water. The exits are designed for use in hostile environments that would otherwise damage ordinary sign components.

### CHARGER

Product shall utilize a fully automatic, voltage regulated charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization. The following features shall be standard. Low voltage disconnect (LVD), brownout protection and AC lockout. 3 year warranty provided.

### BATTERY

Maintenance free, sealed lead calcium battery supplies 90 minutes of emergency power. Estimated service life of eight years. Operating temperature range of 65°F (19°C) to 85°F (30°C).

### ENCLOSURE

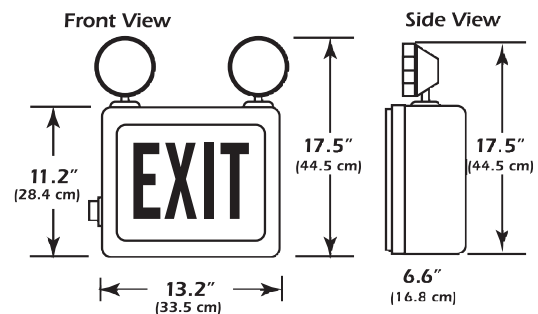
The exit housing shall be impact resistant, fiberglass reinforced polyester gray enclosure for use in NEMA 4, 4x, 12 and 13 areas, and in Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB H & IIC, and Class II, Division 2, Groups F & G. The housing shall include a one-piece formed gasket and corrosion resistant hardware.

### HOUSING

Constructed of impact resistant fiberglass reinforced polyester. Housing color is gray with stainless steel hardware and clear, polycarbonate cover. Housing is suitable for use in NEMA 4, 4x, 12 and 13 areas and in Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB H, & IIC and Class II, Division 2, Groups F & G. Includes one-piece formed gasket and corrosion resistant hardware. Standard internal or external mounting feet provides installation flexibility.



### DIMENSIONS



### ELECTRONICS

120/277 VAC dual voltage input with surge-protected, solid-state charging circuitry provides for a reliable charging system. Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp. Accommodated one or two mounted 6 volt, 6 watt halogen Par 36 lamp heads.



# HZA1R-C

## CLASS 1 & 2 DIVISION 2 LED COMBINATION

### ORDERING INFORMATION

DESCRIPTION: TES-HZA1R 24 Watt, Single Face, Red Letters, 2 heads, Self-Test, Shatterproof Lens

Series/Voltage	Battery Wattage	# Faces	Letter Color	# Heads	Options (Factory-installed)
HZA1R-C					
<ul style="list-style-type: none"> <li>• HZA1R-C</li> </ul>	<ul style="list-style-type: none"> <li>• L6 (06 Watt)</li> <li>• L12 (12 Watt)</li> <li>• L24 (24 Watt)</li> <li>• L60 (60 Watt)</li> </ul>	<ul style="list-style-type: none"> <li>• 1 (Single Face)</li> </ul>	<ul style="list-style-type: none"> <li>• R (Red)</li> <li>• G (Green)</li> </ul>	<ul style="list-style-type: none"> <li>• 0 (No Head)</li> <li>• 1 (1 Head)</li> <li>• 2 (2 heads)</li> </ul>	<ul style="list-style-type: none"> <li>• ST (Self Test)</li> <li>• STA (Self Test w/ Alarm)</li> <li>• TA (120 VAC Time Delay)</li> <li>• TB (277 VAC Time Delay)</li> <li>• S (Shatterproof Lens)</li> <li>• T {Special Input Transformer (Specify voltage and frequency)}</li> </ul>

EXAMPLE: HZA1R-C-L24-1-R-2-S

\*Note:

- 1) Standard lamp head is 6VDC, 6 Watt, Par 36 Z9K style lamp head. Consult factory for alternate lamp head.
- 2) Some option configurations may impact UL listing. Consult factory for specifics.

### ILLUMINATION

Direct view LEDs are driven to provide maximum face illumination (213 to 215 average foot lambert), yet are not driven to exceed the LED manufactures' recommended current-to-life cycle calculation. LED circuit will not force output degradation and non-compliance of face illumination standards for a 15 year period.

### AUTOMATIC DIAGNOSTIC TESTER

The ST option conducts automatic and manual tests, and indicates real time status of the lamp. Automatic tests include: Systems analysis D3 every 10 seconds, with actual load tests performed for a 3 minute duration every 30 days, and for a 30 minute duration every 180 days. Manual tests include a 3, 30 and 90 minute battery discharge and lamp illumination tests.

### INSTALLATION AND OPERATION:

Exit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination level for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

### PERFORMANCE

Input power requirements at 120 VAC Red - 25.2 watts max. Green - 25.2 watts max

### CODE & STANDARDS COMPLIANCE

The HZA1R-C Series meets or exceeds all performance standards as required D3 by UL924, NFPA70,

Meets or exceeds requirements for:  
Class I, Division 2, Groups A, B, C & D  
Class I, Zone 2, Groups IIA, IIB + H2 & IIC

Class II, Division 2, Groups F & G  
UL924, 844, and 1604 Listed  
NFPA 101, NEC, and OSHA.



( SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. )