Chicago Offering
Lights the way to safety

by ABB
CITY OF CHICAGO – APPROVED

Lightalarms® is proud to present its complete range of Chicago-Approved life safety equipment using LED light source. A leading manufacturer of emergency lighting and exit signage, Lightalarms® has been supplying innovative, reliable emergency lighting in the U.S. since 1953 and is pleased to continue this tradition with our newly-expanded Chicago LED product offering.

SETTING THE STANDARD

When it comes to life safety, there can be no compromise. The Lightalarms® products on the following pages are designed, manufactured and tested to meet some of the most demanding standards in North America—Chicago standards.

The complete line of Lightalarms® life safety products meets or exceeds the requirements of UL 924, NFPA 101, Life Safety Code, NEC and ICC standards. In addition, you will now find UL approved equipment, for use in “City of Chicago Environmental Airspaces” (CCEA).

This mark is recognized by the Chicago Department of Buildings, Electrical Division. From high-end architectural to commercial installations, for new construction and retrofit projects, there’s a Lightalarms product to meet your specifications.

Lightalarms® – lighting the way to safety since 1953.
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FEATURES

Construction
- Face Plate: Virgin acrylic face plate is thin, silk-screened to provide a flawless legend. Face plates are available with red letters on a white background
- Housing: Die-Cast aluminum back box, trim ring, trim plate and canopy
- U-shaped clear acrylic Legend panel features laser-etched letters and chevrons

Mounting
- All mounting configurations use the same basic components. Inserting a trim ring allows for recessed mounting on walls or ceilings. Applying a canopy allows for surface mounting on ceilings or walls as back or end mount.

Finishes
- Standard finish is brushed aluminum with other finishes available as an option

Chevrons
- Silk Screened as specified

LEDS
- White LED light source, 10-year life expectancy

Self-Diagnostics
- Self-Powered models available with or without Improved Diagnostics

Special Wording Panels
- Available. Contact your sales representative with your design requirements

Approvals
- Listed to UL 924 Standards
- City of Chicago Approved

Warranty
- Five Year full warranty (subject to proper installation and maintenance)

Detailed warranty terms located at: www.lightalarms.com

ACCESSORIES

(Order as a separate item)

| Pendant, White | PW-* |
| Pendant, Black | PB-* |
| Pendant, Gray  | PA-* |

* Specify pendant length (12", 24", 36", etc).

BACKBOX

(Order as a separate item)

| Backbox kit white | BBKTS-WT-L |
| Backbox kit black  | BBKTS-BK-L |
| Backbox kit brushed aluminum | BBKTS-BA-L |
| Backbox kit chrome  | BBKTS-CH-L |
| Backbox kit dark bronze | BBKTS-DB-L |
| Backbox kit polished brass | BBKTS-PB-L |

SPECIFICATIONS

Supply and Install Lightalarms® CH LED Series CHSLD, CHSLED, CHSLD2, CHSPLD, CHSPLDD Series.

The Exit or Stairs Sign specified with (D) dome or (P) pyramid trim plate, single face shall be standard with (1) legend panel, (1) housing, (1) trim ring, (1) trim plate, (1) canopy and 27 inch adjustable bar hangers and specified as double face shall be standard with (1) legend panel (with EXIT or STAIRS silk screened on each side), (1) housing, (1) trim ring, (1) trim plate, (1) canopy and 27 inch adjustable bar hangers.

The Exit or Stairs Sign specified with (D) dome or (P) pyramid trim plate models housing, trim ring, trim plate and canopy shall be made of die-cast aluminum. Housing, trim ring, trim plate and canopy shall be in color, (W) white, (B) black or (A) brushed aluminum. Legend panel color shall be red on white.

The unit shall have the trim plate snap and lock in the housing with torsion spring retainers, thereby eliminating any visible screws or hardware. The legend panel shall be clear acrylic, U-shape and the letters and chevrons silk-screened as specified. The (D) dome or (P) pyramid trim plate model Exit or Stairs Sign shall be suitable for surface mount, wall, end or ceiling as well as recessed mounted wall or ceiling applications. The illumination source shall be Light Emitting Diodes (LED) in white. The LEDs shall provide illumination in normal and emergency operation mode. The LEDs shall be mounted inside the Exit Sign housing on a PCB strip. A LED sensitive EXIT legend silk-screened in RED, provides the 6" high by 3/4" stroke EXIT or STAIRS letters with even illumination and no visible LEDs or hot spots.

AC-Only models shall be 120/277VAC, 60Hz, with a power consumption of less than 2.5W. AC/DC models shall be 120/277VAC, 60Hz, with a power consumption of less than 2.5W and allows for DC operation from 6VDC to 24VDC, drawing less than 2.5W. Self-Powered models shall be 120/277VAC, 60Hz, with a power consumption of less than 3.5W and supplied with a sealed maintenance-free Nickel-Cadmium battery, providing at least 90 minutes illumination upon AC failure. When specified, the Self-Powered Exit Sign with Improved Diagnostics shall include a self-test and silent diagnostic function, managed by a micro-controller; it shall execute automatic tests for one minute every 30 days, 30 minutes every 60 days and 2 hours annually. A diagnostic circuit shall continuously monitor the performance of the battery, charger module and LED lamps. When a fault is detected the pilot light shall change color from green to red and flash with a specific code. The red light is steady-on in case of a battery disconnect; it will flash with one blink for battery failure; two blinks for charger failure and four blinks for LED lamp failure. A label with the diagnostic legend shall be visible next to the pilot light.

The Exit Sign shall be tested by the Underwriters Laboratories and listed to UL 924 standards. Meets City of Chicago Approved, NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards. Includes a five-year full warranty. The Exit Sign shall be Lightalarms® Model ________________.

ARROW (CHEVRON) DESIGNATION

<table>
<thead>
<tr>
<th>Arrow Right</th>
<th>Arrow Left</th>
<th>Double Arrow</th>
<th>Arrow Right &amp; Left</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXIT</td>
<td>EXIT</td>
<td>EXIT</td>
<td>EXIT</td>
</tr>
</tbody>
</table>

Arrow Right arrow Right & Left

Represent each side of a double face panel.

NOTE: Wording and chevrons not to scale. For illustration purposes only.

POWER CONSUMPTION CHART

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AC SPECS</th>
<th>DC SPECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-Only</td>
<td>120-277VAC</td>
<td>Less than 2.5W</td>
</tr>
<tr>
<td>AC/DC</td>
<td>120-277VAC</td>
<td>Less than 2.5W</td>
</tr>
<tr>
<td>Self-Powered</td>
<td>120/277VAC</td>
<td>Less than 3.5W</td>
</tr>
<tr>
<td>Self-Powered diagnostic</td>
<td>120/277VAC</td>
<td>Less than 3.5W</td>
</tr>
</tbody>
</table>
**DIMENSIONS**
Dimensions are approximate and subject to change.

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**ORDERING FORMAT**

<table>
<thead>
<tr>
<th>CUSTOM SPEC</th>
<th>SERIES</th>
<th>COLOR OF TRIM PLATE</th>
<th>PANEL TYPE</th>
<th>TRIM PLATE</th>
<th>LEGEND STYLE</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td>City of Chicago</td>
<td>SLDC= AC/DC - Remote 6-24V</td>
<td>A= Brushed Aluminum</td>
<td>Blank= Red-White Chicago legend</td>
<td>Single Face Panels</td>
<td>DL= Damp Locations</td>
</tr>
<tr>
<td>SLD</td>
<td>AC-Only</td>
<td>B= Black</td>
<td>D= Dome</td>
<td></td>
<td>#2A= STAIRS (No Arrows)</td>
<td>Housing shipped Less Panel</td>
</tr>
<tr>
<td>SLD2</td>
<td>AC-Dual Circuit</td>
<td>DB= Dark Bronze (painted)</td>
<td>P= Pyramid shape</td>
<td></td>
<td>#3= EXIT (No Arrows)</td>
<td>LP= Less Panel, (shipped separately)</td>
</tr>
<tr>
<td>SPLD</td>
<td>Self-Powered</td>
<td>PB= Polished Brass</td>
<td></td>
<td></td>
<td>#4A= STAIRS (Arrow Left )</td>
<td></td>
</tr>
<tr>
<td>SPLDD</td>
<td>Self-Powered Diagnostic</td>
<td>CH= Polished Chrome</td>
<td></td>
<td></td>
<td>#9= EXIT (Arrow Left )</td>
<td></td>
</tr>
</tbody>
</table>

**EXAMPLE:** CHSLD2AD#2A
**FEATURES**

**Construction**
- Designed to achieve superior visual clarity and performance with an LED lightsource. LED sensitive inks are formulated to provide a rich red color on white background
- Clear acrylic panel provides optimum light transmission. Illumination is 100% in both AC and emergency mode
- Housing: Die-Cast aluminum trim ring, trim plate and canopy

**Mounting**
- Housing: Fully-recessed, 20-gauge galvanized steel back-box; equipped with hanger bars for installation between joists or a suspended ceiling

**Finishes**
- Standard finish is brushed aluminum with other finishes available as an option

**Chevrons**
- Silk Screened as specified

**LEDs**
- White LED light source, 10-year life expectancy

**Self-Diagnostics**
- Self-Powered models available with or without Improved Diagnostics

**Special Wordings**
- Available. Contact your sales representative with your design requirements

**Approvals**
- Listed to UL 924 Standards
- City of Chicago Approved

**Warranty**
- Five Year full warranty (subject to proper installation and maintenance)

Detailed warranty terms located at: www.lightalarms.com

**SPECIFICATIONS**

Supply and install Lightalarms® CH-FLAT LED Series CHSLD, CHSLDC, CHSLD2, CHSPLD, CHSPLDD Flat trim Series.

The Exit or Stairs Sign specified with (F) flat trim plate, recessed ceiling mount only, single face shall be standard with (1) legend panel, (1) backbox, (1) flat trim plate, and 27 inch adjustable bar and specified as double face shall be standard with (1) legend panel (with EXIT or STAIRS silk screened on each side), (1) backbox, (1) flat trim plate and 27 inch adjustable bar hangers. (F) flat trim plate models backbox shall be made of 20 gauge steel and flat trim of die cast aluminum. Housing, trim ring, trim plate and canopy shall be in color, (W) white, (B) black or (A) brushed aluminum. Legend panel color shall be red on white.

The unit shall have the trim plate snap and lock in the housing with torsion spring retainers, thereby eliminating any visible screws or hardware. The legend panel shall be clear acrylic, U-shape and the letters and chevrons silk-screened as specified. The (F) flat trim plate recessed mount single face or double face shall be suitable for recessed ceiling installations only.

The illumination source shall be Light Emitting Diodes (LED) in white. The LEDs shall provide illumination in normal and emergency operation mode. The LEDs shall be mounted inside the Exit Sign housing on a PCB strip. A LED sensitive EXIT legend silk-screened in RED, provides the 6” high by 3/4” stroke EXIT or STAIRS letters with even illumination and no visible LEDs or hot spots. AC-Only models shall be 120/277VAC, 60Hz, with a power consumption of less than 2.5W. AC/DC models shall be 120/277VAC, 60Hz, with a power consumption of less than 2.5W and allows for DC operation from 6VDC to 24VDC, drawing less than 2.5W. Self-Powered models shall be 120/277VAC, 60Hz, with a power consumption of less than 3.5W and supplied with a sealed maintenance-free Nickel-Cadmium battery, providing at least 90 minutes illumination upon AC failure. When specified, the Self-Powered Exit Sign with Improved Diagnostics shall include a self-test and silent diagnostic function, managed by a micro-controller; it shall execute automatic tests for one minute every 30 days, 30 minutes every 60 days and 2 hours annually. A diagnostic circuit shall continuously monitor the performance of the battery, charger module and LED lamps. When a fault is detected the pilot light shall change color from green to red and flash with a specific code. The red light is steady-on in case of a battery disconnect; it will flash with one blink for battery failure; two blinks for charger failure and four blinks for LED lamp failure. A label with the diagnostic legend shall be visible next to the pilot light.

The Exit Sign shall be tested by the Underwriters Laboratories and listed to UL 924 standards. Meets City of Chicago Approved, NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards. Includes a five-year full warranty.

The Exit Sign shall be Lightalarms® Model __________________________.

**ACCESSORIES** (Order as a separate item)

<table>
<thead>
<tr>
<th>Special Wording</th>
<th>Contact your sales representative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two 27-inch adjustable bar hangers*</td>
<td>TBH</td>
</tr>
</tbody>
</table>

* Bar hangers supplied with unit, order as replacement only

**BACKBOX**
(Order as a separate item)

| Backbox kit flat trim Chicago | BBKTRCH-L |

**ARROW (CHEVRON) DESIGNATION**

<table>
<thead>
<tr>
<th>Arrow Right</th>
<th>Arrow Left</th>
<th>Double Arrow</th>
<th>Arrow Right &amp; Left</th>
</tr>
</thead>
</table>

Represents each side of a double face panel.

NOTE: Wording and chevrons not to scale. For illustration purposes only.
**DIMENSIONS**
Dimensions are approximate and subject to change.

**POWER CONSUMPTION CHART**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AC SPECS</th>
<th>DC SPECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-Only</td>
<td>120-277VAC</td>
<td>Less than 2.5W</td>
</tr>
<tr>
<td>AC/DC</td>
<td>120-277VAC</td>
<td>Less than 2.5W</td>
</tr>
<tr>
<td>Self-Powered</td>
<td>120/277VAC</td>
<td>Less than 3.5W</td>
</tr>
<tr>
<td>Self-Powered diagnostic</td>
<td>120/277VAC</td>
<td>Less than 3.5W</td>
</tr>
</tbody>
</table>

**ORDERING FORMAT**

<table>
<thead>
<tr>
<th>CUSTOM SPEC</th>
<th>SERIES</th>
<th>COLOR OF TRIM PLATE</th>
<th>PANEL TYPE</th>
<th>TRIM PLATE</th>
<th>LEGEND STYLE</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td>SLD</td>
<td>A= Brushed Aluminum W= White B= Black DB= Dark Bronze PB= Polished Brass CH= Polished Chrome</td>
<td>Blank= Red-White Chicago legend F= Flat</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EXAMPLE:** CHSLDWF#12

*ADD 1-1/2” TO HEIGHT OF UNIT WHEN ORDERING PANEL WITH ARROW*
**CHICAGO CHE-LED SERIES**

City of Chicago Approved
Steel LED Exit Sign

**FEATURES**

**Housing**
- Constructed of 20-gauge steel housing with glass panels
- Cabinet offered in Mist white
- White LED lighting source
- Choice of single or double face available

**Mounting**
- Canopy supplied for top or end-mount
- Universal Knockout pattern on back plate for wall mount

**Battery**
- 4.8V Long-life, maintenance-free rechargeable Nickel-Cadmium with Self-Powered model

**Electronics**
- Dual voltage 120/277, 60Hz
- Automatic solid-state charger recharges battery in 24 hours
- A 2 hour run time in emergency mode

**Approvals**
- UL listed for damp location 68°F to 122°F (20°C to 50°C)
- Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
- City of Chicago Approved

**Warranty**
- Three Year full warranty (subject to proper installation and maintenance)
- Detailed warranty terms located at: www.lightalarms.com

**POWER CONSUMPTION CHART**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AC SPECS</th>
<th>DC SPECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE</td>
<td>120/277VAC, 60Hz</td>
<td>5W</td>
</tr>
<tr>
<td>CHEN</td>
<td>120/277VAC, 60Hz</td>
<td>5W</td>
</tr>
</tbody>
</table>

**ARROW (CHEVRON) DESIGNATION**

- Arrow Right
- Arrow Left
- Double Arrow
- Arrow Right & Left

 Represents each side of a double face panel.

NOTE: Wording and chevrons not to scale. For illustration purposes only.

**DIMENSIONS**

Dimensions are approximate and subject to change.

**ORDERING FORMAT**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>LEGEND COLOR</th>
<th>LEGEND STYLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE= AC-Only</td>
<td>R= Red on white</td>
<td>Single Face Panels</td>
</tr>
<tr>
<td>CHEN= Self-Powered (Nickel-Cadmium Battery)</td>
<td></td>
<td>#2A= STAIRS (No Arrows)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#3= EXIT (No Arrows)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#5A= STAIRS (Arrow Right)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#6= EXIT (Arrow Right)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#8A= STAIRS (Arrow Left)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#9= EXIT (Arrow Left)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#11A= STAIRS (Double Arrows)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#12= EXIT (Double Arrows)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Double Face Panels</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#17A= STAIRS (No Arrows)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#18= EXIT (No Arrows)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#23A= STAIRS (Double Arrows)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#24= EXIT (Double Arrows)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#20A= STAIRS (Arrow Left)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and Arrow Right</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#21= EXIT (Arrow Left)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and Arrow Right</td>
</tr>
</tbody>
</table>

EXAMPLE: CHENR#2A
Chicago
CHC-2LED SERIES
City of Chicago Approved
Steel LED Combination Unit

FEATURES

Housing
• Constructed of 20-gauge steel housing with glass panels
• Cabinet offered in Mist white
• White LED lighting source
• Choice of single or double face available

Mounting
• Canopy supplied for top or end-mount
• Universal Knockout pattern on back plate for wall mount

Heads
• Each unit comes with two adjustable 6V-5W LED heads
• Each unit provides 280 lumens

Battery
• 6V Lead-Calcium, maintenance-free, rechargeable battery

Options
• Available with 10W remote capacity on the CHC-2LEDRC model

Electronics
• Low voltage disconnect
• Dual voltage 120/277, 60Hz
• LED indicator light and push-to-test switch
• Automatic solid-state charger recharges battery in 24 hours
• A 2 hour run time in Emergency mode

Approvals
• UL listed for damp location 68°F to 122°F (20°C to 50°C)
• Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
• Meets City of Chicago requirements

Warranty
• Three Year full warranty (subject to proper installation and maintenance)

Detailed warranty terms located at: www.lightalarms.com

SPECIFICATIONS

Supply and Install Lightalarms® CHC-2LED City of Chicago Approved Combination Series.

The Combination Unit shall be standard with (1) canopy. The frame, faceplate, and back plate shall be constructed of 20 gauge steel, canopy shall be Thermoplastic. Frame, faceplate, back plate and canopy shall be (W) white. The Combination Unit shall be suitable for surface mount, wall, end or ceiling installations.

The Exit illumination source shall be Light Emitting Diodes (LED) in white. The LEDs shall provide illumination in normal and emergency operation mode. The LEDs shall be mounted inside the Exit Sign housing. A red on white color matching LED sensitive legend diffuser shall be mounted in front of the LEDs to provide the 6” high by 3/4” stroke EXIT letters with even illumination and no visible LEDs or hot spots.

Combination CHC-2LED models shall be 120/277VAC, 60Hz, with power consumption of less than 12W and supplied with a Lead-Calcium maintenance-free 6V battery providing at least 2 hours, illumination upon AC failure.

The Combination Unit shall be tested by Underwriters Laboratories, listed to UL 924 standards. The Combination Unit shall meet NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards.

Includes a three-year full warranty.

The Combo Sign shall be Lightalarms® Model __________________________.

DIMENSIONS

Dimensions are approximate and subject to change.

POWER CONSUMPTION CHART

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AC SPECS</th>
<th>DC SPECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHC-2LED</td>
<td>120VAC, 60Hz, 0.12A</td>
<td>12W Lead-Calcium Minimum 120 minutes</td>
</tr>
<tr>
<td>CHC-2LED</td>
<td>277VAC, 60Hz, 0.06A</td>
<td>13W Lead-Calcium Minimum 120 minutes</td>
</tr>
<tr>
<td>CHC-2LED-RC</td>
<td>120VAC, 60Hz, 0.12A</td>
<td>12W Lead-Calcium Minimum 120 minutes</td>
</tr>
<tr>
<td>CHC-2LED-RC</td>
<td>277VAC, 60Hz, 0.06A</td>
<td>13W Lead-Calcium Minimum 120 minutes</td>
</tr>
</tbody>
</table>

ARROW (CHEVRON) DESIGNATION

Arrow Right  Arrow Left  Double Arrow  Arrow Right & Left

Represents each side of a double face panel.

NOTE: Wording and chevrons not to scale. For illustration purposes only.

ORDERING FORMAT

<table>
<thead>
<tr>
<th>SERIES</th>
<th>HEADS</th>
<th>LEGEND COLOR</th>
<th>LEGEND STYLE</th>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHC</td>
<td>-2LED</td>
<td>R= Red on white</td>
<td>Single Face Panels</td>
<td>Blank = No Option</td>
</tr>
<tr>
<td></td>
<td>-2LED</td>
<td>R= Red on white</td>
<td>Double Face Panels</td>
<td>RC = 6V-10W Remote Capacity¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Blank= No Option</td>
<td>RC= 6V-10W Remote Capacity¹</td>
</tr>
</tbody>
</table>

EXAMPLE: CHC-2LED#2A
CHICAGO
CHB-2LED SERIES
Steel LED Battery Unit

FEATURES

Housing
- Constructed of 20-gauge steel
- Cabinet offered in Mist white

Mounting
- Knockouts on the back of unit for wall mount
- Side and top knockouts for conduit

Heads
- Each unit comes with two adjustable 6V-5.3W LED heads
- Each unit provides 280 lumens

Battery
- 6V Sealed Lead-Calcium, maintenance-free, rechargeable battery

Options
- Optional 10W remote capacity available on the CCB-2LEDRC model

Electronics
- Low voltage disconnect
- Dual voltage 120/277V, 60Hz
- LED indicator light and push-to-test switch
- Automatic solid-state charger recharges battery in 24 hours
- A 2 hour run time in Emergency mode

Approvals
- UL listed for Damp Location 68°F to 122°F (20°C to 50°C)
- Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
- Meets City of Chicago requirements

Warranty
- Three Year full warranty (subject to proper installation and maintenance)
  Detailed warranty terms located at: www.lightalarms.com

SPECIFICATIONS

Supply and install Lightalarms® CHB-2LED City of Chicago Approved Series.

The emergency lighting unit shall be a self-contained fixture including a sealed maintenance-free Lead-Calcium battery of 6V. The unit shall supply the rated wattage load for a minimum of 120 minutes to 87-1/2% of rated battery voltage. The unit shall be rated 120/277VAC, 60Hz and be UL 924 listed.

The unit charger shall utilize an integrated circuit which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit protected and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit which will connect the battery when the AC circuit is activated, and an electronic brownout circuit which will activate the unit when utility power dips below 80-85% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches 87-1/2% of its nominal voltage. The unit shall be capable of full recharge in compliance with UL 924 specifications. The unit shall be furnished with a test switch and dual diagnostic LED indicator lights (Hi-charge and AC pilot). The cabinet shall be 20 gauge steel with a front hinged panel. Unit shall have 1/2" conduit knock-outs, rear keyhole slots and universal knock-outs to mount to any standard 4" junction box with provision for mounting up to 2 heads on top of cabinet.

Unit shall be listed for Damp Location 68°F to 122°F (20°C to 50°C), meets UL924, NFPA101 Life Safety Code, NEC, OSHA, local and state codes and be Chicago City approved.

Every CHB Series unit shall be fully warranted for three years, subject to proper installation and maintenance.

The unit shall be Lightalarms® Model __________________________.

DIMENSIONS

Dimensions are approximate and subject to change.

ORDERING FORMAT

<table>
<thead>
<tr>
<th>SERIES</th>
<th>LAMP</th>
<th>OPTION</th>
</tr>
</thead>
</table>
| CHB    | -2LED Double Steel Round LED | Blank = No Option  
|        |      | RC= 6V-10W Remote Capacity* |

* Compatible only with ELF612/LED remote. One double dedicated remote.

EXAMPLE: CHB-2LED

www.lightalarms.com
ELF612D/LED SERIES

Thermoplastic Square LED
Indoor or Outdoor Remote Heads
Universal DC voltage 3.6V, 6V or 12V Operation

FEATURES

Housing
- Thermoplastic housing and aluminum canopy with fully adjustable LED heads
- Suitable for indoor or outdoor application
- Suitable for Wet location applications
- Wall or ceiling mount
- Available only in Gray double head configuration
- Universal DC voltage: 3.6V, 6V or 12V operation
- Each head draws 1.5W

Approvals
- UL 924 Listed
- Meets City of Chicago requirements

Warranty
- Three Year full warranty (subject to proper installation and maintenance)
  Detailed warranty terms located at: www.lightalarms.com

ORDERING FORMAT

<table>
<thead>
<tr>
<th>SERIES</th>
<th>HEAD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELF612D</td>
<td>/LED= Thermoplastic Square LED head</td>
</tr>
</tbody>
</table>

EXAMPLE: ELF612D/LED

DIMENSIONS

Dimensions are approximate and subject to change.
FEATURES

Housing
- 20 gauge steel housing designed for easy access to internal components
- Corrosion-resistant baked enamel mist white finish standard, black optional
- Provision for mounting up to 3 lighting heads

Mounting
- Recessed T-Bar ceiling mount; lay-in installation for grid ceiling only

Electronics
- Automatic, temperature-compensated, pulse-type charger
- High capacity, automatic, dust-tight instantaneous transfer relay
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection
- Battery lock-out prevents battery discharge during installation
- Fused output circuit

Improved Diagnostics option
- Units equipped with Improved Diagnostics shall self-test, by simulating a power failure, in accordance with NFPA101, Life Safety Code one minute monthly, 30 minutes every six months and 90 minutes annually. For complete information refer to page 8.

Controls
- Red charger monitor LED indicates charging of the battery
- Amber AC-ON LED indicates AC power is on
- Momentary test switch allows for quick operational check of entire system

Sealed Maintenance-Free Battery
- 12V Lead-Calcium battery

Approval
- UL 924 Listed
- Meets City of Chicago requirements

Warranty (subject to proper installation and maintenance)
- Unit has a three year full warranty (excluding lamps and fuses)
- Lead-Calcium battery has a three year full, plus three year pro-rata warranty

SPECIFICATIONS

Supply and install Lightalarms® TBR-CH Series.

The emergency lighting unit shall be a self-contained fixture including a sealed maintenance-free Lead-Calcium battery 12V-54W as specified on the unit rating chart. The unit shall supply the rated wattage load for a minimum of 90 minutes to 87-1/2% of rated battery voltage. The unit shall be rated 120/277VAC, 60Hz and be UL 924 listed.

The unit charger shall utilize an integrated circuit which samples the battery in relation to temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit protected and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit which will connect the battery when the AC circuit is activated, and an electronic brownout circuit which will activate the unit when utility power dips below 80-85% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches 87-1/2% of its nominal voltage. The unit shall be capable of full recharge in compliance with UL924 specifications. The unit shall be furnished with sealed dust-tight relay, a test switch and dual diagnostic LED indicator lights (hi-charge and AC pilot). The housing shall be 20 gauge steel, designed for provision for mounting up to 3 heads, T-Bar ceiling grid installation and for easy access to internal components.

Units specified with Improved Diagnostics (audible or non-audible) will continuously monitor every critical function of the unit including the attached remote lighting heads and/or attached AC/DC Exit Signs. Operational status of the battery, charger and lamps are indicated by individual LED status indicators. Once a malfunction is detected, if audible, a high-pitch audible alarm will sound, and the appropriate LED status indicator will illuminate alerting of the unit malfunction. If non-audible, only the LED status indicator will illuminate alerting of the unit malfunction. The microcontroller shall automatically self-test, by simulating a power failure, in accordance with NFPA101 Life Safety Code for one minute monthly, 30 minutes every six months and 90 minutes annually.

Every TBR-CH Series unit shall be fully warranted for three years, subject to proper installation and maintenance.

Unit shall be Lightalarms® catalog number ____________________________.

ACCESSORIES (Order as a separate item)

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Test Switch (Metal Faceplate)</td>
<td>PSW</td>
</tr>
<tr>
<td>Remote Test Switch (Plastic Faceplate)</td>
<td>PSW1</td>
</tr>
</tbody>
</table>
Designed for unobtrusive use in T-Bar ceilings. The off-white, fully recessed housing harmonizes with ceiling designs.

DIMENSIONS
Dimensions are approximate and subject to change.

POWER CONSUMPTION / UNIT RATING CHART

<table>
<thead>
<tr>
<th>SERIES</th>
<th>BATTERY TYPE</th>
<th>DC VOLTAGE</th>
<th>87.5% BATTERY CAPACITY (IN WATTS)*</th>
<th>UNITS DUAL VOLTAGE</th>
<th>CURRENT MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>T12BRC2</td>
<td>Lead-Calcium battery</td>
<td>12V</td>
<td>90 MIN. 54</td>
<td>3 HRS. 37</td>
<td>4 HRS. 28</td>
</tr>
</tbody>
</table>

1 National Electrical Code Specification
2 All units 120/277 dual voltage, information based on wiring to specific voltage type

ORDERING FORMAT

<table>
<thead>
<tr>
<th># OF HEADS</th>
<th>SERIES/BATTERY/CAPACITY</th>
<th>HEAD STYLE</th>
<th>SERIES</th>
<th>LAMP TYPE</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank: No heads</td>
<td>1: 1 head 2: 2 heads 3: 3 heads</td>
<td>Lead-Calcium Battery T12BRC2: 12V-54W</td>
<td>/D1= DR1130 (MR16, Metal) CH= City of Chicago Approved</td>
<td>LD7= 12V-4W, MR16 LED LD9= 12V-5W, MR16 LED LD10= 12V-6W, MR16 LED</td>
<td>Blank= Mist White housing, No Options -B= Black Housing -ID= Improved Diagnostics (audible)</td>
</tr>
</tbody>
</table>

EXAMPLE: 2TBRC2/DR1130LD9
 FEATURES

Housing
- 20 gauge steel housing designed for easy access to internal components
- Corrosion-resistant baked enamel mist white finish standard, black optional
- Provision for mounting up to 2 lighting heads

Mounting
- Ceiling or Wall Mount; Mounting Brackets included for lay-in installation in T-Bar grid ceiling as well as dry wall

Electronics
- Automatic, temperature-compensated, pulse-type charger
- High capacity, automatic, dust-tight instantaneous transfer relay
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection is provided
- Battery lock-out prevents battery discharge during installation
- Fused output circuit

Improved Diagnostics option
- Units equipped with Improved Diagnostics shall self-test, by simulating a power failure, in accordance with NFPA101, Life Safety Code one minute monthly, 30 minutes every six months and 90 minutes annually. For complete information refer to page 8.

Controls
- Red charger monitor LED indicates charging of the battery
- Amber AC-ON LED indicates AC power is on
- Momentary test switch allows for quick operational check of entire system

Sealed Maintenance-Free Battery
- 12V Lead-Calcium battery

Approvals
- UL 924 Standard
- Meets City of Chicago requirements

Warranty (subject to proper installation and maintenance)
- Unit has a three year full warranty (excluding lamps and fuses)
- Lead-Calcium battery has a three year full, plus three year pro-rata warranty

 SPECIFICATIONS

Supply and install Lightalarms® RD-CH Series.

The emergency lighting unit shall be a self-contained fixture including a sealed maintenance-free Lead-Calcium battery 12V-36W as specified on the unit rating chart. The unit shall supply the rated wattage load for a minimum of 90 minutes to 87-1/2% of rated battery voltage. The unit shall be rated 120/277VAC, 60Hz and be UL924 listed.

The unit charger shall utilize an integrated circuit which samples the battery in relation to temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit protected and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit which will connect the battery when the AC circuit is activated, and an electronic brownout circuit which will activate the unit when utility power dips below 80-85% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches 87-1/2% of its nominal voltage. The unit shall be capable of full recharge in compliance with UL924 specifications. The unit shall be furnished with sealed dust-tight relay, a test switch and dual diagnostic LED indicator lights (hi-charge and AC pilot). The cabinet shall be 20 gauge steel designed with mounting brackets included for lay-in installation in T-Bar grid ceiling as well as sheet rock. Unit has provision for mounting up to 2 heads on cabinet.

Units specified with Improved Diagnostics (audible or non-audible) will continuously monitor every critical function of the unit, attached remote lighting heads and/or attached AC/DC Exit Signs. Operational status of the battery, charger and lamps are indicated by individual LED status indicators. Once a malfunction is detected, if audible, a high-pitch audible alarm will sound, and the appropriate LED status indicator will illuminate alerting of the unit malfunction. If non-audible, only the LED status indicator will illuminate alerting of the unit malfunction. The microcontroller shall automatically self-test, by simulating a power failure, in accordance with NFPA101 Life Safety Code for one minute monthly, 30 minutes every six months and 90 minutes annually.

Every RD-CH Series unit shall be fully warranted for three years, subject to proper installation and maintenance.

Unit shall be Lightalarms® catalog number________________________.

 ACCESSORIES (Order as a separate item)

<table>
<thead>
<tr>
<th>Wire Guard (DR1130 heads)</th>
<th>WG6-L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Test Switch (Metal Faceplate)</td>
<td>PSW</td>
</tr>
<tr>
<td>Remote Test Switch (Plastic Faceplate)</td>
<td>PSW1</td>
</tr>
</tbody>
</table>
**DIMENSIONS**
Dimensions are approximate and subject to change.

```
<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-1/2&quot;</td>
<td>29.21cm</td>
</tr>
<tr>
<td>7-1/4&quot;</td>
<td>18.41cm</td>
</tr>
<tr>
<td>10-7/8&quot;</td>
<td>27.62cm</td>
</tr>
</tbody>
</table>
```

**POWER CONSUMPTION / UNIT RATING CHART**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>DC SPECS</th>
<th>AC SPECS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BATTERY TYPE</td>
<td>DC VOLTAGE</td>
</tr>
<tr>
<td>RD12M3</td>
<td>Lead-Calcium</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ National Electrical Code Specification
² All units 120/277 dual voltage, information based on wiring to specific voltage type

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<tr>
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<th>HEAD STYLE</th>
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</thead>
<tbody>
<tr>
<td>0: No heads</td>
<td>Lead-Calcium Battery</td>
<td>CH= City of Chicago</td>
<td>/D1= DR1130 (MR16, Metal)</td>
<td>LD7= 12V-4W, MR16 LED</td>
<td>Blank= Mist White housing, No Options</td>
</tr>
<tr>
<td>1: One head</td>
<td>RD12M3= 12V-36W</td>
<td></td>
<td></td>
<td>LD9= 12V-5W, MR16 LED</td>
<td>-B= Black Housing</td>
</tr>
<tr>
<td>2: Two heads</td>
<td></td>
<td></td>
<td></td>
<td>LD10= 12V-6W, MR16 LED</td>
<td>-ID= Improved Diagnostics (audible)</td>
</tr>
</tbody>
</table>

**EXAMPLE:** 2RD6M2/LHK