

# BAL1400 Series

## Fluorescent Emergency Ballast

### INTENDED USE:

The BAL1400 fluorescent emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel cadmium battery, charger and electronic circuitry in one compact white case. This ballast can be used with most 17W through 215 W (2'-8') T5, T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, Circline, Energy Saving and 4-pin long compacts. One or two lamp operation may be selected. It is also compatible with most 1, 2, 3 and 4-lamp electronic, standard, Energy Saving and dimming AC ballasts. If used in an emergency only fixture, no AC ballast is necessary. The BAL1400 is suitable for use in indoor fixture EXCEPT air handling heated air outlets, and wet or hazardous location fixtures. For information about specific lamp or ballast operation please contact the factory.



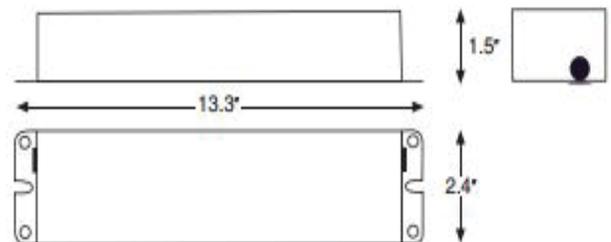
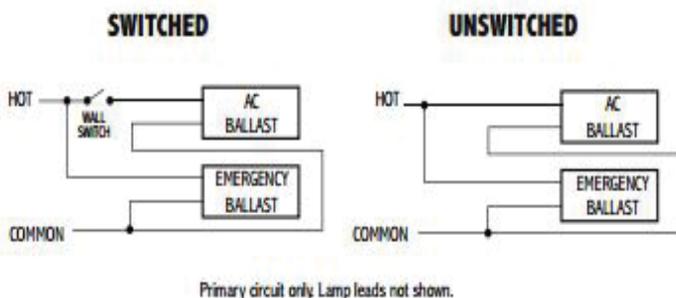
Specification grade one or two lamp emergency illumination

### OPERATION

When AC power fails, the BAL1400 immediately switches to the emergency mode, keeping either one or two lamps illuminated at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the BAL1400 automatically returns to the charging mode.

### INSTALLATION

The BAL1400 does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The BAL1400 may be installed inside on top of or remote from the fixture. The emergency ballast may be remotely installed up to half the distance the AC ballast manufacturer recommends removing the AC ballast from the lamp or up to 50 feet, whichever is less. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C for extended periods.



### BATTERY

Since high temperatures exist in fluorescent fixtures, the BAL1400 uses a specially constructed, high-temperature nickel cadmium battery. This battery requires no maintenance and has a life expectancy of 7- 10 years.

### EMERGENCY ILLUMINATION

Depending on the number (one or two), wattage and type of lamps selected, the BAL1400 produces 1100 to 1400 lumens initial emergency light output (contact factory for specific information on the lumen output for different lamps). If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination.

### SPECIFICATIONS

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Texas Fluorescents BAL1400 emergency ballast. This emergency ballast shall consist of a high temperature, maintenance free nickel cadmium battery, charger and electronic circuitry contained in one 13 3/8" x 2 3/8" x 1 1/2" white metal case. A solid state charging indicator light to monitor the charger and battery, a single pole test switch and installation hardware shall be provided. The emergency ballast shall be capable of operating 1 or 2 17W-215W single pin or bi-pin fluorescent lamps, including standard, Energy Saving, HO, VHO, Circline, U-shaped and 4-pin rapid start long compacts in the emergency mode for a minimum of 90 minutes. The BAL1400 shall have 4.0W of input power, a 24.0W/hr battery capacity and comply with emergency standards set forth by the current NEC. The emergency ballast shall be UL listed for installation inside on top of or remote from the fixture and shall be warranted for a full 5 years from the date of purchase.

### WARRANTY

Model BAL1400 is warranted for five (5) full years from date of purchase. This warranty covers only-properly installed Texas Fluorescents emergency ballasts used under normal conditions. For the warranty period Texas Fluorescents will, at its option, repair or replace without charge, a defective emergency ballast provided it is returned to the factory transportation prepaid and out inspection determines it to be defective under terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the emergency ballast.

### UL AND CODE COMPLIANCE

The BAL1400 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and is UL Listed for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and requirements.

PRODUCT SUMMARY			
UL LISTED	DUAL VOLTAGE INPUT	BATTERY	TEMPERATURE RATING (AMBIENT)
Factory or field installation	120/277 VAC 60Hz	High-Temperature Maintenance Free Nickel-Cadmium Battery 7-10 year life Expectancy	0°C to+55°C (32° to 131°F)
ILLUMINATION	AC INPUT CURRENT	BATTERY CHARGING CURRENT	DIMENSIONS
90 Minutes	280mA	280mA	13.3" x 2.4" x 1.5" (339mm x 60mm x 38mm) Mounting center 12.8" (325mm)
INITIAL LIGHT OUTPUT	AC INPUT POWER RATING	RECHARGE TIME	WEIGHT
1100-1400 Lumens	4.0Watts	24 Hours	3.4lbs (1.5kg)
FULL WARRANTY	TEST SWITCH	CHARGING LIGHT INDICATOR	
5 years (NOT pro-rata)	Single pole	LED	