

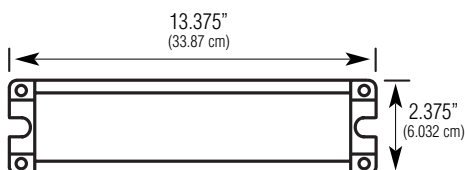
GENERAL DESCRIPTION

The C1400ST-N Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The C1400ST-N may be installed in or near the fixture to provide unobtrusive life safety protection.

ILLUMINATION

The C1400ST-N provides 90 minutes of emergency illumination by utilizing existing fluorescent lighting and produces a total initial output of up to 1,400 lumens. The C1400ST-N can be used with most 17-215 W (2'-8") T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline and energy saving, and 4-pin compacts. One or two lamp operation may be selected.

DIMENSIONS



Dimensions are approximate and subject to change.

C1400ST-N

Self-Diagnostic Fluorescent Emergency Ballast For One or Two Lamp Operation 1400 Lumen Maximum Output



SHOWN: C1400ST-N

HOUSING

Housing is constructed of steel with a high temperature powder coat paint finish.

Slim housing allows for wireway channel mounting on most recessed luminaires.

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 AC indicator lamp and test switch.

BATTERY

Maintenance-free, sealed nickel cadmium battery. Supplies 90 minutes of emergency power. Estimated service life of 10 years. Operating temperature range of 32°F (0°C) to 131°F (55°C).

LAMP OPERATION¹

Operates the following lamp types:² Most 17-215 W (2'-8") T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline and energy saving, and 4-pin compacts

ELECTRICAL SPECIFICATIONS

Input power requirements

4.0 watts max

NOTES:

- 1) Consult factory for compatibility, operation and performance of product with lamp types not listed.
- 2) See Table 1 on back for specific lamp operation.

SELF-DIAGNOSTICS

Diagnostic circuit constantly monitors battery voltage and charging current, and will communicate a fault by flashing the status indicator lamp and providing an audible alarm. The audible alarm may be defeated at time of installation.

An automatic discharge test is also performed for 30 seconds every 30 days, and for 90 minutes every 12 months.

Automatic test satisfies the functional periodic test required by NFPA 101.

CODE COMPLIANCE

UL 924 listed
UL damp location listed
NFPA 70 and NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
Suitable for use in sealed and gasketed luminaires

WARRANTY

Five year full electronics warranty
Five year full battery warranty

ORDERING INFORMATION

C1400ST-N

FLUORESCENT EMERGENCY BALLAST

C1400ST-N = 1,400 Lumen Max. Output
Fluorescent Emergency Ballast
for One or Two Lamp Operation

Specification Data for C1400ST-N Self-Diagnostic Fluorescent Emergency Ballast

HOUSING

Housing is constructed of steel with a high temperature powder coat paint finish.

Housing is very compact, thus allowing for wireway channel mounting on most recessed luminaires.

ELECTRONICS

Dual voltage 120/277 VAC input is standard.

An indicator light and test switch are available to signify that AC utility is present, and periodically transfer to emergency operation.

Battery charging circuitry is entirely solid-state, and of a constant voltage design. Battery recharge time after a complete discharge is less than the required UL 924 standard.

Solid-state circuitry causes an instantaneous transfer to battery power if either the loss of AC utility, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch installed on the luminaire, or in a remote location.

SELF-DIAGNOSTICS

Diagnostic circuit constantly monitors battery voltage and charging current, and will communicate a fault by flashing the status indicator lamp, as well as an audible alarm¹.

An automatic discharge test is also performed for 30 seconds every 30 days, and for 90 minutes every twelve months.

Automatic test satisfies the functional period test required by NFPA 101.

1. The audible alarm may be defeated at time of installation.

BATTERY

Sealed, maintenance-free nickel cadmium battery is equipped with a quick connect plug assembly for easy installation.

Standard sustained emergency operation is for 90 minutes with the illumination source providing full light output.

The suggested operating temperature range for nickel cadmium batteries is of 32°F (0°C) to 131°F (55°C) and should provide a service life of 10 years.

LAMP OPERATION

Table 1 (Lumen Output)

LAMP	1 LAMP	2 LAMPS
F032, FBO31 T8	1350	1350
F025, FBO24 T8	1250	1100
F017, FBO16 T8	1050	950
F096, T8	1400	
F40T12, F40/U	1100	1100
F48T12/HO	1200	
F96T12, HO, VHO	1100	
F40 T12 ES (34 W)	975	975
PL-L 50 W, F50BX/RS, DULUX L 55 W	900	
PL-L 40 W, F40/30BX, DULUX L 40 W	900	
PL-L 36 W, F39/36BX, DULUX L 36 W	1100	1100
PL-L 24 W, F27/24BX/RS, DULUX L 27 W		1000
F38 2D/4P	1000	1100
F28 2D/4P	1100	1100

PERFORMANCE

Input power requirements

4.0 watts max

CODE COMPLIANCE

The C1400ST-N meets or exceeds all performance standards as required by UL 924, NFPA 70 and NFPA 101, NEC, BOCA, OSHA, and IBC. The C1400ST-N is UL damp location listed and suitable for use in sealed and gasketed luminaires.

SUGGESTED SPECIFICATION

Furnish and install Chloride's fluorescent emergency ballast model C1400ST-N. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

INSTALLATION AND OPERATION - Unit 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 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.

CHARGER - Unit shall utilize a solid-state, constant current charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization. The self-testing, self-diagnostic circuit shall automatically perform not less than a 30 second test every 90 days and a full 90 minute test annually. Equipment faults shall be monitored and indicated via a visual and audible alarm.

BATTERY - The battery shall be a maintenance-free, nickel cadmium battery. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 131°F (55°C). Nickel cadmium batteries shall be supplied with a five year full warranty.

ENCLOSURE - The housing shall be constructed of steel with a high temperature powder coat paint finish. The slim housing shall allow for wireway channel mounting on most recessed luminaires.



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SYSTEMS

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