

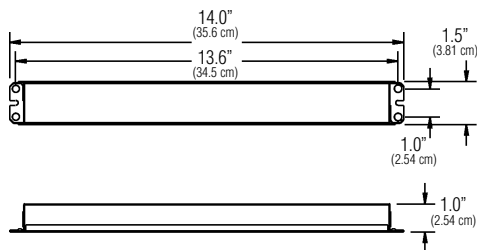
GENERAL DESCRIPTION

The CTP450 Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The CTP450 may be installed in or near the fixture to provide unobtrusive life safety protection.

ILLUMINATION

The CTP450 provides 90 minutes of one lamp emergency illumination by utilizing existing fluorescent lighting, and produces 450 lumens initial emergency light output. The CTP450 can be used with most 30w to 40w (2'-4') T8, T10, or T12 fluorescent lamps without integral starters, including U-shaped and 4-pin long compact fluorescent lamps (30w to 42w). It is also compatible with most 1, 2, 3 and 4-lamp electronic, standard, energy saving and dimming AC ballasts. See lamp operation for specific lamp types.

DIMENSIONS



Dimensions are approximate and subject to change.

CTP450

Low-Profile Fluorescent Emergency Ballast For One Lamp Emergency Operation 450 Lumen Maximum Output



HOUSING

Housing is constructed of 22 gauge steel with a high temperature powder coat paint finish.

Low profile housing allows mounting on most low-profile fluorescent fixtures with low profile AC ballast.

ELECTRONICS

120/277 VAC dual voltage input with solid-state charging circuitry provides a reliable charging system.

Charging system is complete with an AC LED indicator lamp and high performance momentary test switch.

BATTERY

Maintenance free, high temperature 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 OPERATION ¹

Operates the following lamp types in emergency mode: ²

T8/HO T8 (1") Linear Fluorescent

T12 (1-1/2") Linear Fluorescent

T5 Long (4-Pin) Compact Fluorescent

NOTES:

1) Consult factory for compatibility and performance of product with lamp types not listed.

2) See Table 1 for specific lamp performance and operation.



SHOWN: CTP450

CODE COMPLIANCE

UL 924 listed

UL listed for damp locations 32°F (0°C) to 131°F (55°C)

NFPA 70 and NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

ELECTRICAL SPECIFICATIONS

Input power requirements

1.0 watt max.

WARRANTY

One year full electronics warranty

One year full battery warranty

ORDERING INFORMATION (EXAMPLE: CTP450)

CTP450

LOW PROFILE FLUORESCENT² EMERGENCY BALLAST

CTP450 = 450 Lumen Max. Output Fluorescent Emergency Ballast for One Lamp Operation

OPTIONS

EX = Special Input Transformer (Specify voltage and frequency)
DL = Damp Location Listing

Specification Data for CTP450 Fluorescent Emergency Ballast

HOUSING

Housing is constructed of 22 gauge metal with a high temperature powder coat finish.

Housing is very slim and compact, thus allowing for mounting on most low-profile fluorescent fixtures with low profile AC ballast.

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 can be performed.

Battery charging circuitry is entirely solid-state, and of a constant current 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.

BATTERY

Sealed, maintenance free, high temperature 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.

ELECTRICAL SPECIFICATIONS

Input power requirements

1.0 watt max.

CODE COMPLIANCE

The CTP450 meets or exceeds all performance standards as required by UL 924, NEC, NFPA 70, NFPA 101, NEC, BOCA, OSHA and IBC.

Lamp Operation and Performance

Table 1

LINEAR LAMPS	WATTAGE	BASE TYPE	EMERGENCY LAMP OPERATION
Rapid, Instant, Energy Saving T8 through T12 (2' - 4')	30-40	Single-Pin Bi-Pin	One
COMPACT LAMPS	WATTAGE	BASE TYPE	EMERGENCY LAMP OPERATION
T5 Long Compact	30-32	2G11 4-Pin	One

SUGGESTED SPECIFICATION

Furnish and install Chloride's low-profile fluorescent emergency ballast model CTP450. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC), and be approved for installation inside, on top of, or remote from the chosen luminaire.

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.

BATTERY - The battery shall be a maintenance free, high temperature 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 one year full warranty.

ENCLOSURE - The housing shall be constructed of 22 gauge steel with a high temperature powder coat paint finish. The slim housing shall allow for mounting on most low-profile fluorescent fixtures with low profile AC ballast.



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