

Crestron **ST-BTPN**

Rechargeable Battery Pack

Operations and Installation Guide



CRESTRON

This document was prepared and written by the Technical Documentation department at:



Crestron Electronics, Inc.
15 Volvo Drive
Rockleigh, NJ 07647
1-888-CRESTRON

Contents

Rechargeable Battery Pack: ST-BTPN	1
Introduction	1
Functions and Features	1
Specifications	2
Physical Description	3
Industry Compliance	4
Handling	5
Storage	5
Charging	6
Installation	6
Removal	8
Further Inquiries	9
Future Updates	9
Return and Warranty Policies	10
Merchandise Returns / Repair Service	10
CRESTRON Limited Warranty	10

Rechargeable Battery Pack: ST-BTPN

Introduction

Functions and Features

The Crestron rechargeable battery pack, ST-BTPN, is designed to supply power to Crestron ST and STX Series (1550C and 1700C) wireless touchpanels. The ST-BTPN offers the touchpanel user the freedom to roam without being confined to a stationary power source (i.e., external battery pack or docking station). The ST-BTPN can be charged when it is mounted on the ST-DSN docking station. The ST-BTPN can also be charged when mounted on the older ST-DS docking station.

NOTE: For related information on the docking stations, consult the ST-DSN and ST-DS Operations Guides (Doc. 6095 and Doc. 5738, respectively) The latest versions of the guides can be obtained from the Downloads | Product Manuals section of the Crestron website (www.crestron.com).

Functional Summary

- Powers wireless touchpanels
- Unique design allows it to be installed only one way
- Fast charging Nickel Metal Hydride battery

NOTE: For related information on the wireless touchpanels, consult the latest version of the ST-1550C Operations Guide (Doc. 6096), the STX-1550C and STX-1550CW Operations Guides (Doc. 5812 and Doc. 5849, respectively), the ST-1700C Operations Guide (Doc. 6051) and the STX-1700C and STX-1700CW Operations Guides (Doc. 6049 and Doc. 6103, respectively). The latest versions of the guides which includes their respective international versions are available from the Downloads | Product Manuals section of the Crestron website (www.crestron.com).

Specifications

The following table provides specifications for the ST-BTPN.

Specifications for the ST-BTPN

SPECIFICATION	DETAILS
Output Voltage	4.8 VDC
Capacity	4.1 Ah, typical
Composition	Nickel Metal Hydride (NiMH)
Estimated Operating Time*	Up to 5 hours of continuous use (20-22 hours in standby)
Estimated life	500 charge/discharge cycles (min.)
Optimal Operating Temperature	Approximately 50°F to 104°F (10°C to 40°C)
Optimal Storage Temperature	Approximately -4°F to 113°F (-20°C to 45°C)
Charging Temperature	Approximately 50°F to 95°F (10°C to 35°C)
Weight	0.79 lb (0.36kg)

*Approximate battery operation for battery pack in touchpanels:

Worst case battery operation – 3.0 hours (STX -1700C at full backlight)

Best case battery operation – 4.3 hours (ST-1550 at full backlight)

Approximate battery charge times in touchpanels:

Worst case charge time – 6 hours (STX-1700C at full backlight)

Best case charge time – 2.7 hours (All units with power off)

NOTE: The battery will not charge when above maximum charging temperature. To cool the battery, either turn off power to the touchpanel by pressing the power down button on the touchscreen (or use the power down timeout), or remove the battery from the touchpanel (refer to “Removal” on page 8). The battery can also be mounted on the docking station to cool and then charge. The docking station begins charging the battery once the battery has cooled.

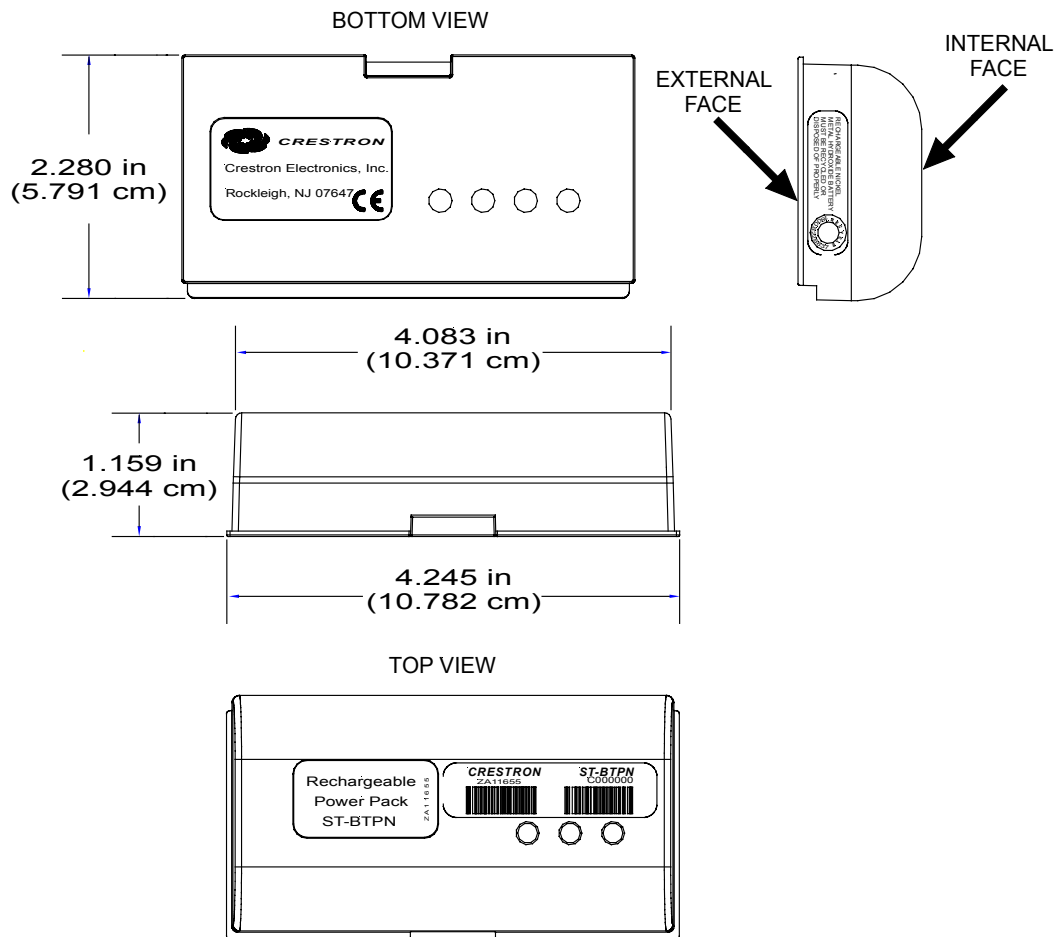
Physical Description

The ST-BTPN (refer to illustrations below and on the next page) is housed in a black plastic enclosure with its electrical contacts on the top and bottom of the unit.

Physical View



Physical View (continued)



Industry Compliance

As of the date of manufacture, the ST-BTPN has been tested and found to comply with specifications for CE and C-Tick markings.



Handling

NOTE: The ST-BTPN contains a NiMH battery. When the unit can no longer retain a charge, it must be recycled or disposed of properly. Refer to the recycle label on the unit for disposal information.

To prevent short-circuiting, use care when handling the ST-BTPN. NiMH cells have extremely low internal resistance and will discharge at high current levels when shorted. As a result, the high temperatures can damage the rechargeable battery pack and may cause personal injury. Avoid accidental shorting from uninsulated workbenches, tools, bracelets, rings, and coins.

Storage

The ST-BTPN can be stored in a temperate dry place (removed from the touchpanel and docking station) indefinitely without significant irreversible degradation in its performance. The self-discharge rate is a function of temperature and internal resistance. High temperature storage reduces charge retention. Best results occur if the ST-BTPN is stored at an optimal temperature of 32° to 104°F (0° to 40°C). After an extended storage, initiate a few charge/discharge cycles to restore full capacity. Recharge the ST-BTPN after storage prior to use.

Charging

NOTE: Typically, the battery pack is good for 500 charge/discharge cycles.

To charge the ST-BTPN:

- Use the powered ST-DSN docking station with battery guide; or
- Install the ST-BTPN in a ST-1550C or 1700C and mount touchpanel on a powered ST-DSN docking station.

CAUTION: Internal damage to battery pack may occur if it is mounted by itself on the ST-DSN without the battery guide.

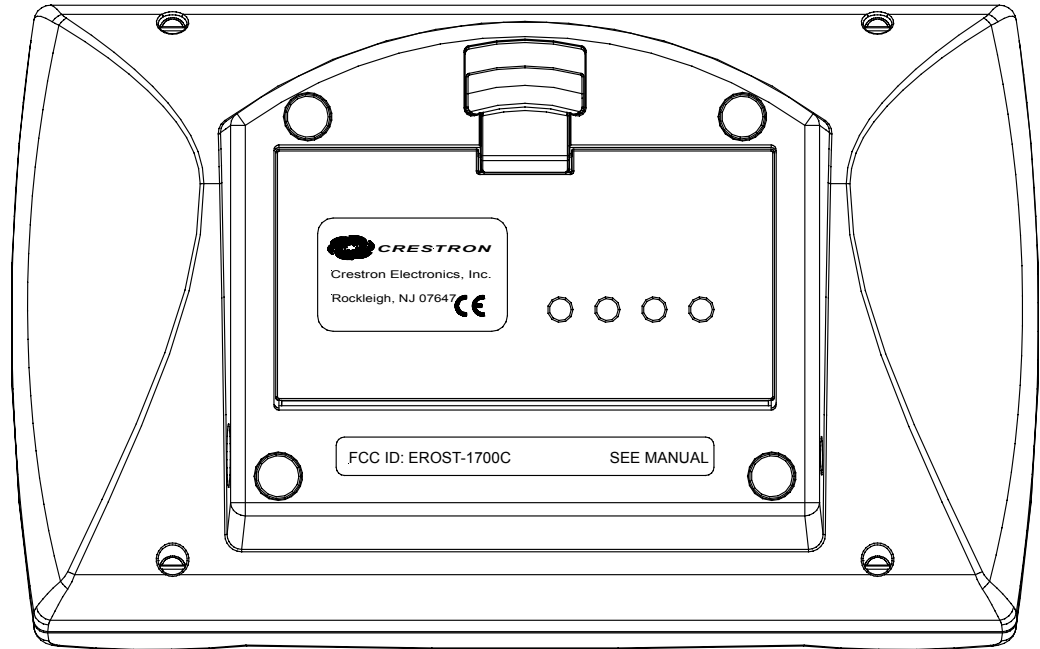
NOTE: The battery pack may take up to 6 hours to charge in a powered touchpanel. Refer to Specifications on page 2 for charging information.

For further information, consult the ST-DSN Operations Guide (Doc. 6095). The latest version of the guide is available from the Downloads | Product Manuals section of the Crestron website (www.crestron.com).

Installation

The unique design of the ST-BTPN prevents it from being installed improperly. The rechargeable battery pack fits only one way in the battery compartment of the touchpanel.

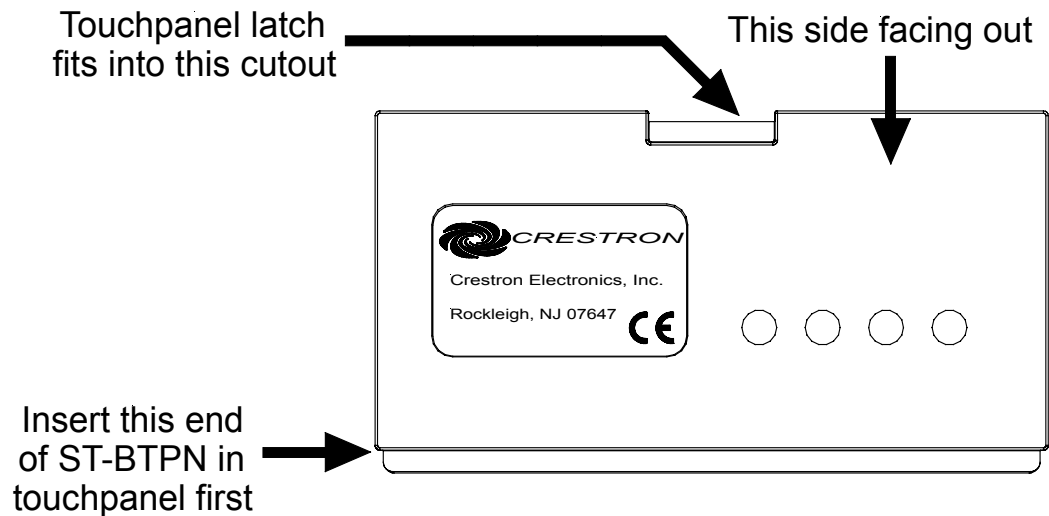
Although the ST-BTPN can be installed in several Crestron wireless touchpanel models, the ST-1700C and STX-1700C are the most common models to use the battery pack. These models have the same shape and battery compartment location. Therefore, as an example, the illustration on the next page shows the ST-BTPN properly seated in the ST-1700C. Complete the steps on the next page to install the battery.

ST-BTPN installed in a touchpanel (ST-1700C)

NOTE: The ST-BTPN is shipped fully discharged. Charge the battery pack in a well-ventilated area away from sparks, flames, or smoking.

1. Place touchpanel screen-side down on a clean and soft surface.
2. Place the designated end of the ST-BTPN into the touchpanel battery compartment. Refer to illustration on next page.
3. Slowly rotate ST-BTPN in compartment so that external face is visible.
4. Verify proper installation with audible click of rechargeable battery pack into battery compartment. Touchpanel latch secures the ST-BTPN and prevents the battery pack from falling out.

ST-BTPN Orientation for Installation



Removal

Complete the following steps to remove the ST-BTPN from a touchpanel.

1. Place touchpanel screen-side down on a clean and soft surface.
2. Lift latch up so that one edge of ST-BTPN pops out of touchpanel battery compartment.
3. Rotate battery pack out and remove.

Further Inquiries

If after reviewing this Operations and Installation Guide, you cannot locate specific information or have questions, please take advantage of Crestron's award winning customer service team by calling:

- In the US and Canada, call Crestron's corporate headquarters at 1-888-CRESTRON [1-888-273-7876] or 1-201-767-3400.
- In Europe, call Crestron International at +32-15-50-99-50.
- In Asia, call Crestron Asia at +852-2341-2016.
- In Latin America, call Crestron Latin America at +5255-5093-2160.
- In Australia and New Zealand, call Creston Pacific at +613-9480-2999

Future Updates

As Crestron improves functions, adds new features, and extends the capabilities of the ST-BTPN, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron website (www.crestron.com) periodically for manual update availability and its subjective value. Updates are available from the Download | Product Manuals section and are identified as an “Addendum” in the Download column.

Return and Warranty Policies

Merchandise Returns / Repair Service

1. No merchandise may be returned for credit, exchange, or service without prior authorization from CRESTRON. To obtain warranty service for CRESTRON products, contact the factory and request an RMA (Return Merchandise Authorization) number. Enclose a note specifying the nature of the problem, name and phone number of contact person, RMA number, and return address.
2. Products may be returned for credit, exchange, or service with a CRESTRON Return Merchandise Authorization (RMA) number. Authorized returns must be shipped freight prepaid to CRESTRON, Cresskill, N.J., or its authorized subsidiaries, with RMA number clearly marked on the outside of all cartons. Shipments arriving freight collect or without an RMA number shall be subject to refusal. CRESTRON reserves the right in its sole and absolute discretion to charge a 15% restocking fee, plus shipping costs, on any products returned with an RMA.
3. Return freight charges following repair of items under warranty shall be paid by CRESTRON, shipping by standard ground carrier. In the event repairs are found to be non-warranty, return freight costs shall be paid by the purchaser.

CRESTRON Limited Warranty

CRESTRON ELECTRONICS, Inc. warrants its products to be free from manufacturing defects in materials and workmanship under normal use for a period of three (3) years from the date of purchase from CRESTRON, with the following exceptions: disk drives and any other moving or rotating mechanical parts, pan/tilt heads and power supplies are covered for a period of one (1) year; touchscreen display and overlay components are covered for 90 days; batteries and incandescent lamps are not covered.

This warranty extends to products purchased directly from CRESTRON or an authorized CRESTRON dealer. Purchasers should inquire of the dealer regarding the nature and extent of the dealer's warranty, if any.

CRESTRON shall not be liable to honor the terms of this warranty if the product has been used in any application other than that for which it was intended, or if it has been subjected to misuse, accidental damage, modification, or improper installation procedures. Furthermore, this warranty does not cover any product that has had the serial number altered, defaced, or removed.

This warranty shall be the sole and exclusive remedy to the original purchaser. In no event shall CRESTRON be liable for incidental or consequential damages of any kind (property or economic damages inclusive) arising from the sale or use of this equipment. CRESTRON is not liable for any claim made by a third party or made by the purchaser for a third party.

CRESTRON shall, at its option, repair or replace any product found defective, without charge for parts or labor. Repaired or replaced equipment and parts supplied under this warranty shall be covered only by the unexpired portion of the warranty.

Except as expressly set forth in this warranty, CRESTRON makes no other warranties, expressed or implied, nor authorizes any other party to offer any other party to offer any warranty, including any implied warranties of merchantability or fitness for a particular purpose. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty. This warranty statement supercedes all previous warranties.

Trademark Information

All brand names, product names, and trademarks are the sole property of their respective owners. Windows is a registered trademark of Microsoft Corporation. Windows95/98/Me/XP and WindowsNT/2000 are trademarks of Microsoft Corporation.

This page intentionally left blank.



Crestron Electronics, Inc.
15 Volvo Drive Rockleigh, NJ 07647
Tel: 888.CRESTRON
Fax: 201.767.7576
www.crestron.com

Operations and Installation Guide – DOC. 6088
06.02

Specifications subject to
change without notice.