

## Open Your Front Gate or Building Entrance Right From Your Smart Phone

The Viking **BTC-1** allows a user to actuate a door strike or door controller by touching an icon on their Bluetooth enabled smartphone, tablet or notebook. The **BTC-1** can be pre-programmed with the type of contact needed, NO or NC, and the duration of the contact from 0.5 to 120 seconds. Continuous on is also supported (see current limits below).

Security is maintained by way of encrypted communication as well as a programmable Security key. The unit name is also user changeable to allow the use of multiple **BTC-1**'s. All programming can be done through the free Android application available on Google's Play Store (Windows application coming soon).



The unit has an LED status indicator that shows if the unit is paired with a device, in programming, or idle. The **BTC-1** is small enough to fit on a door frame and it can be powered from the door strike power supply.

### Features

- Small size, can fit on a door frame
- Wide supply range 12-24 VAC/VDC
- Programmable One touch operation
- LED status indicator
- Programmable Security key
- Programmable Contact N.O. or N.C.
- Programmable Contact time .5 to 120 seconds
- Easy to use application software

### Applications

- Gate entrances
- Door entrances
- Condos
- Apartment buildings
- Businesses

### Specifications

**Power:** 12 to 24 VAC or VDC

**Contact Rating:** 2 amps at 24 volts AC or DC momentary, 1 Amp continuous

**Dimensions:** 65mm x 35mm x 20mm (2.56" x 1.38" x 0.79")

**Environmental:** 0° to 32° C (32° to 90° F) with 5% to 95% non-condensing humidity

**Cover Color:** Beige

**Connections:** Three 18" long leads, 26 AWG

**Range:** Up to 60 feet, depending on obstructions

**Pairings:** Remembers up to eight pairings

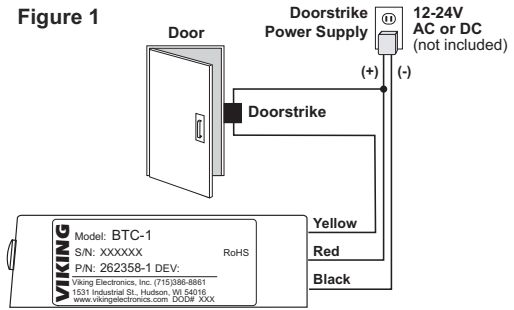
[www.vikingelectronics.com](http://www.vikingelectronics.com)

**Information: (715) 386-8861**

## Installation

The **BTC-1** is designed to be powered from an AC or DC power supply ranging from 12 to 24 volts. This makes it compatible with most door strike power supplies. The **BTC-1** should be mounted inside, near the door or device it will be controlling and within 30 feet of the position of the user. The **BTC-1** mounts to any smooth surface using the two foam tape strips attached to the back of the unit. Figure 1 shows the power and control connections.

**Figure 1**



## Programming

The **BTC-1** is programmed using the BTC application software. The BTC application can be found on Google's Play Store by searching for vikingelectronics.btc1 or by using the QR-code in figure 2. Install this software on your Bluetooth device and make sure you have access to the **BTC-1** module before continuing. The **BTC-1**'s LED will blink when powered, but not yet connected over Bluetooth.



**Figure 2**

<b>Step 1.</b>	Start the application. If the Bluetooth communication is not running on your Bluetooth device, a message will pop up asking if you want to turn on Bluetooth. Tap on yes.
<b>Step 2.</b>	From the application, tap on "Connect" in the menu. From the next screen tap on "Scan for Devices". The application will now try to find all Bluetooth devices within range.
<b>Step 3.</b>	From the list of devices select "Viking BTC-1". A Bluetooth pairing request notification will appear, choose Pair. The BTC-1 app remembers which device it was last connected to and will reconnect automatically on startup. The <b>BTC-1</b> 's LED will be lit solid now.
<b>Step 4.</b>	If prompted, enter your security key (default is 845464). Check "Remember" if you do not want to be prompted each time you run the app (not recommended). To change the security key, see the "Security Key" section of Programming the Device Settings.

### A. Programming the Device Settings

These settings are stored on the **BTC-1** and are global, applying to all users. As a security precaution, changing the **BTC-1**'s device setting requires physical access to the unit.

<b>Step 1.</b>	To enter programming mode, first connect to your <b>BTC-1</b> with the android app.
<b>Step 2.</b>	Then hold the programming button on the <b>BTC-1</b> for one second.
<b>Step 3.</b>	The <b>BTC-1</b> 's LED will blink fast and the programming screen will then appear on your smart phone. Programming can only be done with the <b>BTC-1</b> connected to your phone.

**Device name:** This is the device name as it appears to phones when they scan for devices. Up to 16 standard ASCII characters allowed, fewer if other character sets are used.

**Security key:** This is the security code needed to gain access to the **BTC-1**. If this field is left blank, you will be asked if you want to use the current key or no key.

**Action time:** This is the duration of a momentary action. 0.5 seconds - 120 seconds, half second intervals.

**Contact:** Set whether the relay contact should be normally open or normally closed.

**Allow continuous actions.** This check box enables the Toggle action, On action and Off action buttons on the main screen. Only enable if your door strike can handle continuous closures and draws less than 1Amp.

**Figure 3**



2 After programming the device settings, you will receive several "Success!" messages. The **BTC-1** will then disconnect, reboot and it's LED will resume a slow blink. After the "Success!" messages finish and your phone disconnects, exit the app and wait 30 seconds before restarting the app and continuing.

## B. Setting Your App Preferences

These settings are stored on your phone and are unique to each user. To get to the preference screen, tap the preference icon in the menu. You do not need to be connected to the **BTC-1** to change the application preferences.

**Security Key:** Enter your security code here if you do not want to be prompted each time you run the app (not recommended). If you do this, and lose your phone, anyone who finds your phone will have access to your building.

**Select BTC-1:** This will bring up a list of paired Bluetooth devices. If your device is not listed, tap "Scan for devices" to find any unpaired devices in range. Select your Viking BTC-1 from the list. A Bluetooth pairing request notification may appear. If so, choose "Pair". Your app will automatically reconnect to this device when you start the BTC application.

**Launch command:** This action is automatically performed on app start, once it has connected to your device. See the Buttons section of Operation for a description of each option.

**Exit after command:** This option forces the app to close after performing an action successfully. To disable this, start the app with your Bluetooth disabled.

**Exit disables Bluetooth:** This option shuts off your phone's Bluetooth when the app exits. This only applies if Bluetooth was not already on when the app started.



Figure 4

# Operation

## A. Normal Mode

<b>Step 1.</b>	Start the app and connect to your <b>BTC-1</b> . If this is your first time connecting to your <b>BTC-1</b> , you will need to manually connect, and pair with the unit (See setup, paragraphs 2-4). After this, the app will automatically reconnect each time it is launched. The <b>BTC-1</b> 's LED will light solid when connected.
<b>Step 2.</b>	Enter the security key if prompted.
<b>Step 3.</b>	To activate the relay, tap the appropriate button based on the <b>Button Descriptions</b> below.
<b>Step 4.</b>	A message declaring "SUCCESS!!" will appear near the bottom of the screen if the operation was successful. The Contact status message above the buttons should change as well and The <b>BTC-1</b> 's LED will wink.
<b>Step 5.</b>	Exit the app by pressing the back button on your phone. The <b>BTC-1</b> 's LED will blink when disconnected.

**Note:** After 60 seconds of inactivity, you will automatically be disconnected and given a "Disconnected. You've time-out." Dialog box. You can also disconnect by tapping the disconnect icon in the menu or exiting the app.

## Button Descriptions

**Momentary Action:** This starts a timed relay activation for the preprogrammed number of seconds. See the "Action time" section of Programming the device settings to change this.

**Toggle Action\*:** This toggles the relay or connected device from off to on or on to off.

**On Action\*:** This turns on the relay or connected device.

**Off Action\*:** This shuts off the relay or connected device.

\* **Note:** These buttons are disabled by default. See the "Allow continuous actions." section of Programming the device settings to change enable them.

Figure 5



## B. One Touch Mode

In one touch mode, when started, the app will automatically connect, activate the relay, then disconnect and exit. This allows the user to activate a relay with a single tap of an icon on your phone's desktop. To set this mode:

<b>Step 1.</b>	First, (optional) enter the key in the Security Key preference. Only do this if you do not want to be prompted for the key.
<b>Step 2.</b>	Set your <b>BTC-1</b> in the Select <b>BTC-1</b> preference.
<b>Step 3.</b>	Set the desired Launch command.
<b>Step 4.</b>	Set the app to automatically exit. See <b>Programming</b> , section <b>B</b> for more details.

To disable this mode:

<b>Step 1.</b>	First disable your phone's Bluetooth.
<b>Step 2.</b>	Start the app, but when asked to turn on Bluetooth, choose no.
<b>Step 3.</b>	Revert the preferences you set above.

# Troubleshooting

## Symptom: The app closes unexpectedly after start-up:

If the app closes immediately after connecting it may be configured for One Touch Mode. Turn your phone's Bluetooth off, then start the app. When prompted by the app, do not turn Bluetooth on. Go into preferences and uncheck the exit after command checkbox.

## Symptom: I can't connect to my BTC-1:

*Is the BTC-1's LED lit solid or blinking?*

**Solid:** The device is in use. Someone else is currently connected to your BTC-1. Only one phone can be connected to the BTC-1 at a time. Wait 1 minute and they should be disconnected. If after 1 minute the LED is still solid, try power cycling the unit.

**Blinking:** The device is not in use. Continue to the next step.

**Blinking very fast:** The device is in use and in programming mode. The BTC-1 will not time out of programming mode. Wait until the installer finishes programming the device setting or power cycle the unit to force it out of programming. (not recommended)

*Are you out of range?*

The BTC-1's range is approximately 60 feet in open air. The range will be reduced by walls, large metal objects, microwaves and other transmitters. Try moving closer to it. If you are unable to connect, even when standing next to your BTC-1, proceed to the next step.

Is your phone properly paired with your BTC-1?

Go to the Bluetooth settings on your phone. Check that "Viking BTC-1" is listed.

- If listed, unpair, reboot your phone then repair with it.

- If not listed, try scanning/searching for Bluetooth devices.

- If your BTC-1 appears, pair with it.

- If it does not appear, try rebooting your phone, power cycling your BTC-1 or resetting your BTC-1 by holding the Programming button for 5 seconds.

## Symptom: The contact status doesn't update:

If the Contact status message doesn't update, exit the app by using the back button on your phone. Then restart the app. If this does not help, try uninstalling and reinstalling the app.

# Warranty

**IF YOU HAVE A PROBLEM WITH A VIKING PRODUCT, CONTACT: VIKING TECHNICAL SUPPORT AT (715) 386-8666**

Our Technical Support Department is available for assistance Monday 8am - 4pm and Tuesday through Friday 8am - 5pm central time. So that we can give you better service, before you call please:

1. Know the model number, the serial number and what software version you have (see serial label).
2. Have your Technical Practice in front of you.
3. It is best if you are on site.

### RETURNING PRODUCT FOR REPAIR

The following procedure is for equipment that needs repair:

1. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (RA) number. The customer MUST have a complete description of the problem, with all pertinent information regarding the defect, such as options set, conditions, symptoms, methods to duplicate problem, frequency of failure, etc.
2. Packing: Return equipment in original box or in proper packing so that damage will not occur while in transit. Static sensitive equipment such as a circuit board should be in an anti-static bag, sandwiched between foam and individually boxed. All equipment should be wrapped to avoid packing material lodging in or sticking to the equipment. Include ALL parts of the equipment. C.O.D. or freight collect shipments cannot be accepted. Ship cartons prepaid to: **Viking Electronics, 1531 Industrial Street, Hudson, WI 54016**
3. Return shipping address: Be sure to include your return shipping address inside the box. We cannot ship to a PO Box.
4. RA number on carton: In large printing, write the R.A. number on the outside of each carton being returned.

### RETURNING PRODUCT FOR EXCHANGE

The following procedure is for equipment that has failed out-of-box (within 10 days of purchase):

1. Customer must contact Viking's Technical Support at 715-386-8666 to determine possible causes for the problem. The customer MUST be able to step through recommended tests for diagnosis.
2. If the Technical Support Product Specialist determines that the equipment is defective based on the customer's input and troubleshooting, a Return Authorization (R.A.) number will be issued. **This number is valid for fourteen (14) calendar days from the date of issue.**
3. After obtaining the R.A. number, return the approved equipment to your distributor, referencing the R.A. number. Your distributor will then replace the Viking product using the same R.A. number.
4. The distributor will NOT exchange this product without first obtaining the R.A. number from you. **If you haven't followed the steps listed in 1, 2 and 3, be aware that you will have to pay a restocking charge.**

### LIMITED WARRANTY

Viking warrants its products to be free from defects in the workmanship or materials, under normal use and service, for a period of one year from the date of purchase from any authorized Viking distributor or 18 months from the date manufactured, whichever ever is greater. If at any time during the warranty period, the product is deemed defective or malfunctions, return the product to Viking Electronics, Inc., 1531 Industrial Street, Hudson, WI., 54016. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (R.A.) number.

This warranty does not cover any damage to the product due to lightning, over voltage, under voltage, accident, misuse, abuse, negligence or any damage caused by use of the product by the purchaser or others. This warranty does not cover non-EWP products that have been exposed to wet or corrosive environments.

**NO OTHER WARRANTIES. VIKING MAKES NO WARRANTIES RELATING TO ITS PRODUCTS OTHER THAN AS DESCRIBED ABOVE AND DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.**

**EXCLUSION OF CONSEQUENTIAL DAMAGES. VIKING SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE TO PURCHASER, OR ANY OTHER PARTY, FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED TO THE SALE OR USE OF THE PRODUCT SOLD HEREUNDER.**

**EXCLUSIVE REMEDY AND LIMITATION OF LIABILITY. WHETHER IN AN ACTION BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR ANY OTHER LEGAL THEORY, ANY LIABILITY OF VIKING SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, OR AT VIKING'S OPTION, REFUND OF THE PURCHASE PRICE AS THE EXCLUSIVE REMEDY AND ANY LIABILITY OF VIKING SHALL BE SO LIMITED.**

IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT EACH AND EVERY PROVISION OF THIS AGREEMENT WHICH PROVIDES FOR DISCLAIMER OF WARRANTIES, EXCLUSION OF CONSEQUENTIAL DAMAGES, AND EXCLUSIVE REMEDY AND LIMITATION OF LIABILITY, ARE SEVERABLE FROM ANY OTHER PROVISION AND EACH PROVISION IS A SEPARABLE AND INDEPENDENT ELEMENT OF RISK ALLOCATION AND IS INTENDED TO BE ENFORCED AS SUCH.

## Product Support: (715) 386-8666

Due to the dynamic nature of the product design, the information contained in this document is subject to change without notice. Viking Electronics, and its affiliates and/or subsidiaries assume no responsibility for errors and omissions contained in this information. Revisions of this document or new editions of it may be issued to incorporate such changes.