TX+2WAYFOB Wireless Keyfob Installation Instructions

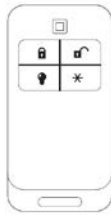**PLEASE SEE REVERSE SIDE FOR IMPORTANT PRODUCT WARNINGS AND DISCLAIMER INFORMATION.**

Description

The TX+2WAYFOB is an unsupervised wireless keyfob device that when within operational range of an Interlogix control panel or receiver, can remotely arm, disarm, and perform other functions specific to the system.

The TX+2WAYFOB features the TX+ Encryption protocol which provides encrypted wireless communication to select Interlogix control panels, as well as 2-way communication functionality providing acknowledgement at the device via the tri-color LED that transmissions sent have been received by the panel. Please refer to your panel's installation instructions to see if it is TX+ Encrypted capable.

The TX+2WAYFOB also utilizes the standard ITI-319 protocol which is compatible with all Interlogix control panels and receivers. When enrolled into a panel and operating in the standard ITI-319 mode, the device functions in 1-way mode only and does not receive acknowledgement signals back from the panel.

Figure 1: TX+2WAYFOB

Enrollment Into TX+ Encryption Supported Panels

To enroll the TX+2WAYFOB as an encrypted keyfob into a panel that supports the TX+ Encryption protocol, follow these steps:

1) Place the panel into program mode, then go to Learn Sensors menu. Refer to your specific alarm panel manual for details on these menus.

2) Once the Learn Sensors mode has been activated, press and hold both the **STAR** and **LOCK** buttons together for 5 seconds. ✱ + 🔒 The LED will blink red one time upon transmission, followed by an alternating RED and GREEN blinks (6 times total) for successful acknowledgement of enrollment into the panel.

3) If the panel does not respond after completing step 2, repeat as necessary until the device is successfully enrolled into the panel.

Note: Utilization of the TX+ Encrypted protocol is only compatible with select Interlogix control panels. When enrolled into a panel that is TX+ Encrypted capable, the enrollment menu screen may indicate "TX+ Encrypted" to verify that the sensor is communicating to the panel via the encrypted protocol. Please refer to your panel's installation instructions to verify that the panel supports TX+ Encrypted capability.

If the keyfob is unintentionally enrolled into a TX+ Encryption supported panel in the standard ITI-319 protocol mode, the device will need to be removed from the panel, and the keyfob Reset/Restore function will need to be performed before attempting to re-enroll in the TX+ Encryption mode. The Reset/Restore function is performed by pressing and holding the UNLOCK and LIGHT buttons together for 5 seconds. 🔓 + 💡 The LED will remain illuminated green for 3 seconds following the successful reset/restoral.

Enrollment into Non TX+ Encryption Supported Panels (ITI-319 Protocol, one-way mode only)

To enroll the TX+2WAYFOB into a panel utilizing the standard ITI-319 protocol, follow these steps:

1) Place the panel into program mode, then go to Learn Sensors menu. Refer to your specific alarm panel manual for details on these menus.

2) Once the Learn Sensors mode has been activated, press and hold both the **LOCK** and **UNLOCK** buttons together for 5 seconds. 🔒 + 🔓 The LED will blink red one time upon transmission. Then select the appropriate sensor group and number on the panel. Refer to your specific alarm panel manual for details on the different sensor groups.

3) If the panel does not respond after completing step 2, repeat as necessary.

Note: When the TX+2WAYFOB is enrolled into a panel utilizing the standard ITI-319 protocol, the 2-way communication functionality is not available and it will operate as a standard 1-way device.

Operation in TX+ Encrypted Mode

When the TX+2WAYFOB is enrolled into an Interlogix panel/receiver that supports the TX+ Encrypted protocol, and the device is communicating via the TX+ Encrypted protocol, the following chart indicates the different transmissions possible, along with their corresponding LED acknowledgements after the initial RED blink upon transmission:

FUNCTION	KEYFOB ACTION	LED RESPONSE	PANEL STATUS
Enrollment	Hold STAR and LOCK **together for 5 seconds** ✱ + 🔒	RED LED blink once, followed by RED/GREEN alternating	Device successfully enrolled
Arm Stay	Press LOCK once 🔒	RED LED blinks 2 times	Panel Armed Stay
Arm Away	Press LOCK twice 🔒x2	RED LED blinks 4 times	Panel Armed Away
Disarm	Press UNLOCK once 🔓	GREEN LED blinks 3 times	Panel Disarmed
Panic	Hold LOCK and UNLOCK **together for 3 seconds** 🔒 + 🔓	RED/GREEN alternating	Panic Alarm
Re-sync (only done during sensor test mode)	Hold STAR and LOCK **together for 5 seconds** ✱ + 🔒	RED/GREEN alternating	Device successfully resynchronized
Reset/Restore	Hold UNLOCK and LIGHT **together for 5 seconds** 🔓 + 💡	GREEN LED stays on for 3 seconds	Keyfob reverts back to factory defaults

Trouble Conditions in TX+ Encrypted Mode

After the TX+2WAYFOB is enrolled into an Interlogix panel/receiver that supports the TX+ Encrypted protocol, and the device is communicating via the TX+ Encrypted protocol, the following chart indicates the different trouble conditions that can occur, identified by the following LED responses on the keyfob:

Keyfob Action	LED Response	Meaning
When any button press or sequence is initiated	YELLOW LED blinks 3 times	System cannot arm/disarm/perform function due to trouble condition at panel. Refer back to the panel to understand what trouble condition exists
When any button press or sequence is initiated	YELLOW LED stays on for 3 seconds	No acknowledgement received from the panel. When this occurs, two conditions may exist: 1) the panel has received the keyfob transmission and has entered into the desired state, but the keyfob is too far out of range to receive the acknowledgement messages back from the panel. 2) the keyfob is too far out of wireless range and the panel did NOT receive the keyfob transmission, resulting in no state change at the panel
When any button press or sequence is initiated	RED/GREEN/YELLOW alternating LED blinks	Re-sync required (panel needs to be placed into Sensor Test Mode and the re-sync function needs to be completed)

Operation in ITI-319 Mode

When the TX+2WAYFOB is enrolled into an Interlogix panel/receiver and the device is communicating via the ITI-319 protocol, the following chart indicates the different transmissions possible, along with their corresponding LED acknowledgements. Please refer to your panel's installation instructions for further detail on which keyfob functions may or may not be available.

LOCK 🔒
Depending on your control panel:
Press once to arm in Stay mode. LED blinks RED once upon transmission.
Press twice to arm in Away mode. LED blinks RED once upon transmission.

UNLOCK 🔓
Press this button to disarm the system. LED blinks RED once upon transmission.

LIGHT 💡
For NetworX panels, press this button to arm the system in Stay mode. For Concord or Simon XT, it can turn system-controlled lights on or off. LED blinks RED once upon transmission.

STAR ✳
The star button function depends on the individual panel programming. Refer to the installation instructions for your panel. LED blinks RED once upon transmission.

PANIC or AUX 🔒+🔓
If the keyfob is programmed using a panic or portable auxiliary group number, pressing the LOCK and UNLOCK buttons simultaneously will activate an audible or silent alarm (depending on the group number) and initiate reports to the central station. LED blinks RED once upon transmission.

Replacing the Battery

The TX+2WAYFOB comes pre-installed with a single Panasonic CR-2450 Lithium coin-cell battery that provide up to 10 years of battery life under normal usage conditions. Because keyfobs are non-supervised devices, a low battery signal will only be received by the control panel when the device is within range of the receiver and a button is pressed (if the device is not in use, no low battery signal will be sent until a button is pressed). When the device is carried beyond the range of the receiver and/or is seldom used/tested, the battery could wholly deplete without a warning of the battery condition being sent to the panel. If the LED on the device appears dim or does not turn on when a button is pressed, it is a warning that the battery may be low or depleted and should be replaced. To ensure proper functionality, test the device weekly and follow these simple steps to replace the battery when necessary:

1) Remove the case cover from the back housing by inserting a small flat head screwdriver into the slot at the bottom of the device and press on the tab.

2) Remove the existing battery and re-install a new Panasonic CR-2450 battery. When inserting the battery, pay close attention to the battery polarity indicators to ensure proper placement.

3) Replace the case cover and perform a sensor test to ensure proper communication to the panel/receiver.

TX+2WAYFOB

RF Frequency	319.5 MHz – (Crystal Based)
Compatibility (TX+ Encrypted)	Only Select Interlogix 319.5 MHz control panels/receivers (refer to panel's installation instructions to verify compatibility)
Compatibility (Standard ITI-319)	All Interlogix 319.5 MHz control panels/receivers
Battery Type	1x CR-2450 (Panasonic)
Typical Battery Life	Up to 10 years at 68°F (20°C)
Operating Temperature Range	32° to 120°F (0° to 49°C)
Relative Humidity	0-95% non-condensing
Supervisory Interval	Unsupervised
Storage Temperature Range	-30° to 140°F (-34 to 60°C)
Dimensions	2.25" x 1.25" x 0.5"