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# IMPROX QT

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## ImproX (QT) Quad Transmitter INSTRUCTIONS FOR USE

### SPECIFICATIONS

<b>Working Environment</b> .....	Designed to work in an indoor or outdoor environment similar to IP55. The ImproX QT is, therefore, sealed against water.
<b>Power Source</b>	
Internal Battery.....	3.0 V, 220 mAh, CR2032 lithium coin cell.
Battery Life.....	Up to 2 years, at 10 operations per day, at +25°C (+77°F).
<b>UHF Transmitter</b>	
Frequency.....	433.92 MHz.
Modulation .....	ASK.
Range .....	Up to 20 to 50 m (22 to 55 yd) (line of sight), when used with the ImproX RF 4-Channel UHF Receiver (UHR903-0-1-GB-XX).
<b>RF Passive Tag</b>	
Frequency.....	125 kHz.
Range .....	25 to 50 mm (1 to 2 in).
<b>Status Indicators</b>	
Power LED.....	A steady Red LED. Switches ON during the time that any one of the Push-buttons is pressed.
<b>Push-buttons</b> .....	Four ribbed Push-buttons.

### USER INFORMATION

#### Accessories

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Find the following when unpacking the Transmitter:

- An ImproX Quad Transmitter housed in an opaque Dark Blue, Polycarbonate Plastic housing. The Transmitters housing consists of a Lid and Base, secured with 3 Self-tapping Screws (M2 x 6 mm).

- A 3 V CR2032 lithium coin cell Battery (installed in the Transmitter).
- A 25 mm Key-ring.

## Channel (Push-button) Allocation

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**Figure 1: Button Configuration for Tag Programmed in “Dynamic Code Transmission Mode”**



**Figure 2: Button Configuration for Tag Programmed in “Standard Mode”**

## Operating Modes

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The Quad Transmitter can be configured in one of two modes:

- Default, “Dynamic Code Transmission Mode” compatible with the ImproX RF 4-Channel UHF Receiver (model UHR903-0-1-GB-XX).
- “Standard Mode” compatible with the legacy ImproX RF 4-Channel UHF Receiver (model UHR900-0-1-GB-XX).

### Procedure to Change Modes

1. Press and hold down Push-buttons 2 and 4 at the same time until the LED flashes, release the Push-buttons.
2. Press Push-button 1 within three seconds to change to the new Mode.
3. The Red Power LED indicates the Mode:
  - a. In “Dynamic Code Transmission Mode” the LED flashes rapidly.
  - b. In “Standard Mode” the LED illuminates steady Red.

### Procedure to Confirm the Current Mode

1. Press and hold down Push-buttons 2 and 4 at the same time until the LED flashes, release the Push-buttons.
2. After three seconds the Red Power LED indicates the Mode:
  - a. In “Dynamic Code Transmission Mode” the LED flashes rapidly.
  - b. In “Standard Mode” the LED illuminates steady Red.

## Connection Requirements for Utilization of Four Buttons

When used in conjunction with the ImproX RF 4-Channel UHF Receiver (UHR903-0-1-GB-XX) and a single ImproX (iTRT) Intelligent Twin Remote Terminal (XRT910-0-0-GB-XX, XRT920-0-0-GB-XX, IPS920-0-0-GB-XX or IPS921-0-0-0GB-XX), only two Push-buttons on the ImproX (QT) Quad Transmitter (XQT904-1-1-GB-XX) are available for use. In order to utilize all four of the ImproX (QT) Quad Transmitters (XQT904-1-1-GB-XX) Push-buttons, connect two ImproX (iTRT) Intelligent Twin Remote Terminals (XRT910-0-0-GB-XX, XRT920-0-0-GB-XX, IPS920-0-0-GB-XX or IPS921-0-0-GB-XX), to the ImproX RF Receiver, see Figure 3.

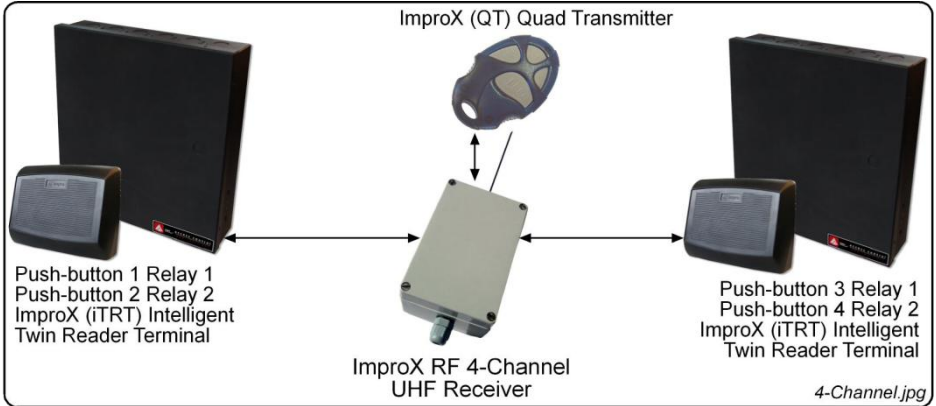


Figure 3: Connection Requirements for Utilization of Four Buttons

## Battery Replacement

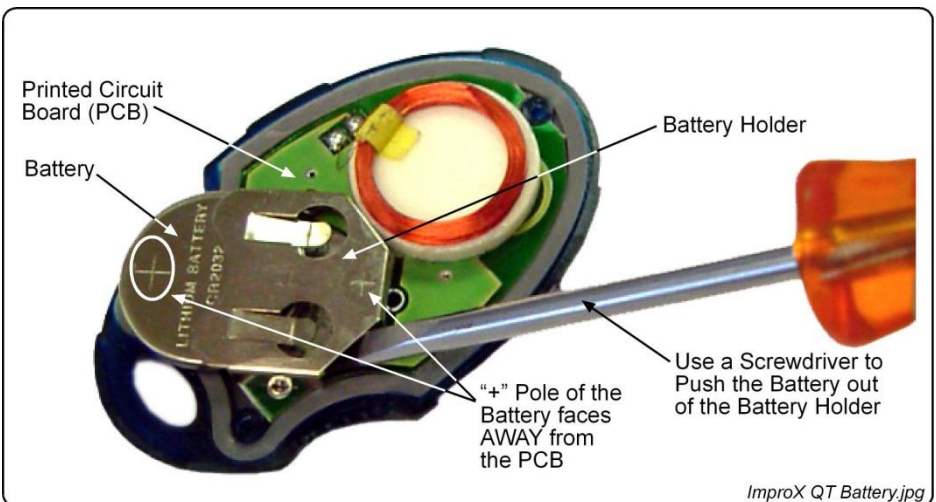


Figure 4: Battery Position

1. Remove the Base of the housing, by removing the three retaining screws in the underside of the Tag.
2. Push the Battery out of the Battery Holder (see Figure 4).
3. Insert the replacement Battery, ensuring that the Positive Pole faces AWAY from the Printed Circuit Board (PCB) as shown in Figure 4.
4. Re-attach the Base of the housing using the three retaining screws.
5. Push any of the Push-buttons and check that the Power LED illuminates steady Red.

*NOTE: If the Power LED does NOT illuminate, check the polarity of the Battery.*

### **Serial Number Label**

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A Serial Number Label is stuck to the Base of each ImproX Quad Transmitter; keep this label in a safe place for warranty purposes.

## **GUARANTEE OR WARRANTY**

This product conforms to our Guarantee or Warranty details placed on our Web Site, to read further please go to [www.impro.net](http://www.impro.net).



This manual is applicable to the ImproX (QT) Quad Transmitter, XQT904-1-1-GB-02. (The last two digits of the Impro stock code indicate the issue status of the product).			
XQT300-0-0-GB-08	Issue 09	Jun 2011	ImproX QT\English Manuals\LATEST ISSUE\ImprXQT-ifu-en-09.docx

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