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## INSTALLATION & USER GUIDE SUPPLEMENT FOR MODELS

# TH800-TH802

## HANDHELD TRANSMITTERS

### Description

The battery powered Isaacs TH800 (One-button) or TH802 (Four-button) push-button, handheld transmitter monitors the state of its contacts (push buttons) and sends uniquely coded radio signals to its mated Isaacs receiver(s). The mated receiver detects the signal and uses it to control its relay output(s). In addition to the change-of-state signals, the transmitter sends periodic status signals to allow full supervision of the wireless system. Unless requested by the customer, receiver supervision is not programmed with handheld transmitters to prevent nuisance fault(s) if the transmitter is taken out of receiver range.

### Specifications TH800 and TH802

**Power Requirement:** One each, 3 volt lithium battery (Panasonic CR2 or equivalent)

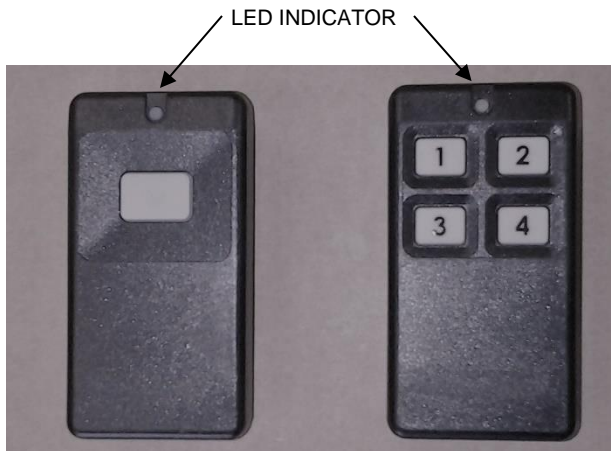
**Operation:** 902 – 928 MHz frequency-hopping, spread spectrum.

**Transmitter input:** push-button contacts (N.O.)

**Effective range (open line-of-sight to receiver):** 2000 ft. ( 0.6 km)

**Physical:** NEMA 1 molded plastic; 3.0 in. x 1.6 in. x 1.0 in. (77 mm x 41 mm x 26 mm).

**Weight:** 2 oz. (57 g)



TH800

TH802

### CAUTION

The handheld transmitter is a portable device and ready to use out of the box. During receiver installation, locate the transmitter in a safe place to prevent inadvertent system activation.

If the hand held transmitter will be used in a dusty or damp environment, keeping the unit sealed in a polyethylene bag will extend its life. Buttons can be easily actuated through a bag.

### Setup

The hand held transmitter is programmed to operate only with specific Isaacs receiver(s). Refer to the Installation & User Guide of the mated receiver(s) for information regarding the wireless system programming.

## Operation and Maintenance

The TH800 or TH802 transmits a closed-contact signal when a button is pressed and an open-contact signal when that button is released. The keypad operation is buffered by a one-half second delay of the signal transmission after a change in button status. The LED indicator on the transmitter cover will flash whenever the transmitter is active.

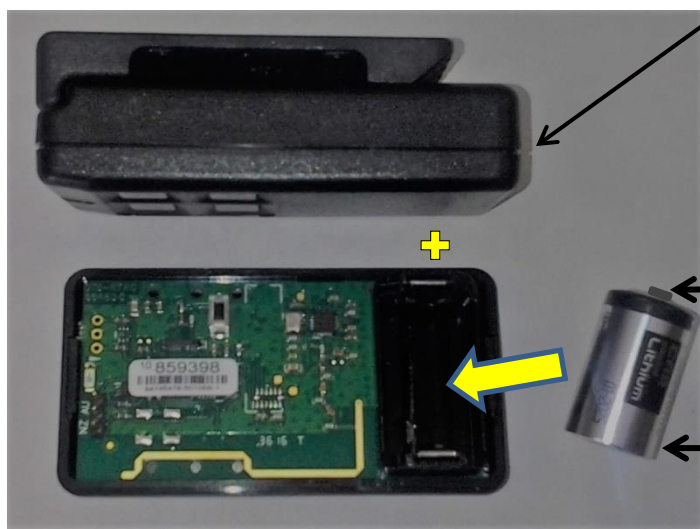
The TH800 transmitter is a single button transmitter that may be programmed to operate the one relay output of a RD810 receiver, and also one or more outputs of an RD811 or RD812 receiver.

The TH802 transmitter is a four button transmitter that can be programmed to control from one to four outputs of an RD812 receiver. Each of the four buttons of the TH802 transmits a unique signal. Simultaneously pressing multiple buttons (pressed within one-half second) will command the receiver to activate all outputs that are programmed to those buttons. Once a transmission begins (LED flashing) the transmitter will not react to another button-press command until the first transmission is complete (approximately 2 seconds).

The only maintenance required is periodic transmitter battery replacement. Battery life will vary depending on the rate of transmitter activity, but normal battery life is 3 to 5 years. A new battery carries 3.2 volts. Replace any battery measuring less than 2.8 volts while the unit is transmitting (during button press or release).

## Battery replacement

Open the handheld case by inserting a small screwdriver in the notch at this end and pressing gently.



Isaacs Handheld transmitters use one (1) each of a type CR2 battery (lithium non-rechargeable). Remove the battery by lifting it first at the positive end. Prying may damage the battery holder.

**CAUTION !**  
**REVERSED POLARITY MAY DAMAGE**  
**TRANSMITTER CIRCUITRY**  
**NOTE THE RAISED TERMINAL ON THE BATTERY**  
**POSITIVE (+) END. INSERT THE BATTERY IN THE**  
**DIRECTION SHOWN.**

Insert the battery by tilting it slightly and placing the negative end in the battery holder first, then press on the positive end until the battery seats

## **Limited Warranty and Disclaimer**

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