

USER'S MANUAL

Introduction

This 433.92 MHz keyfob type transmitter is used in miscellaneous applications requiring short-range remote control of on/off functions.

FCC ID: QY4KTX433

INSTRUCTION TO THE USER

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Transmission Range

The transmission range of this unit depends upon the environment of the signal path, the type of receiver used and the type of receive antenna used. Using Applied Wireless RCR433 receiver or RX433 module with a Holtek 6034 decoder and a quarter wave vertical antenna, line-of-sight range of 300 feet is normal. By using a quarter wave antenna with ground plane or a dipole antenna will extend the range even further. **Non line-of-site applications can have significantly shorter transmission range.**

Addressing

For security purposes, this transmitter is capable of being programmed to one of 6,561 different addresses. The receiver must be programmed to the same address as the transmitter. The default address from the factory for both RCR receivers and KTX series transmitters is 00000000 (all encoder address pins grounded). See application note AN-104 for alternate programming instructions.

Troubleshooting

- ?? Verify power by checking transmitter LED when transmitter is operated.
- ?? Verify address codes for transmitter and receiver are the same.
- ?? Eliminate RF interference as a possible problem by checking operation at a different location.

The following guidelines are provided here for addressing KTX keychain transmitters and RCR receivers.

The encoders and decoders used in these products allow for tri-state addressing. That is, each of the 8 address nodes may be set in either ground, +Vcc or open states.

As shipped from the factory, the address nodes for both products are set to ground, and it is not necessary to modify these address for the products to work together. However, if a different address is desired, address nodes on both transmitter and receiver must be set to the same configuration.

The following describes how to set an address node to a particular state:

Open State

To configure a node in the open state, the trace connecting the address node to ground must be cut.

+Vcc State

To configure a node in the +Vcc state, the trace connecting the address node to ground must be cut AND a connection must be made from the address node to the +Vcc node. A dab of solder is typically used to short across the solder bridge.

Ground State

As configured from the factory.

