

2 Button 13.56MHz Wiegand Long Range Transmitter

WTX-2BM



Quick Start Guide

Please read these instructions carefully before operating the unit
and keep for further reference.

This Quick Start Guide is intended for experienced installing technicians. It is a basic reference to ensure all connections are properly made.

The contents of this manual are subject to change without notice.

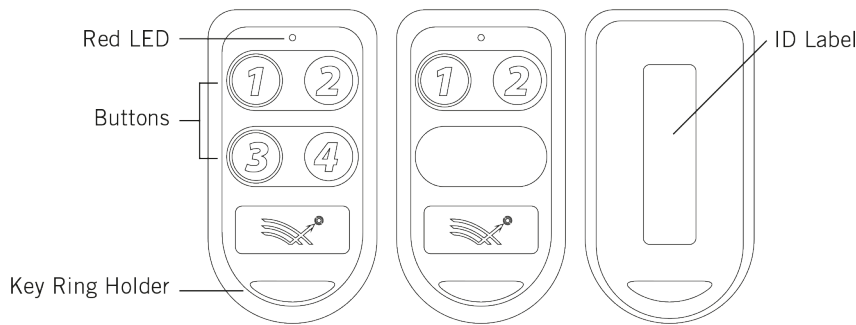
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The Genie WTX-2BM is a long range 2 button Wiegand transmitter powered by the most reliable and common battery as well as being equipped with a potted proximity contactless smart card module.

1.1 Product Features

- MAXSecure™ – Unique security feature
- Wiegand output interface
- Contactless (Button press : Up to 60m, Proximity Presentation Distance : Up to 88mm)
- Built in eyelet – can be easily attached to a keyring
- ETL listed – Independently tested and certified to conform to UL Standard 294
- Rated to typically provide more than 250,000 button presses under normal conditions
- Electronics sealed in a weather resistant enclosure (IP65)

1.2 Product Layout



1.3 Specification

Frequency	Button Press : 433MHz, Presentation : 13.56MHz
Marking	Date code and ID
Button Press Transmission	Rolling code and encryption
Battery	Single replaceable CR2032, 3.3V, lithium battery
Compatibility	Button Press : WRR-2 Receiver, Presentation : Pyramid readers and others
Read Range	Button Press : Up to 60m, Proximity Presentation Distance : Up to 88mm
Interface	Wiegand (26-bit industry standard and custom Wiegand formats)
LED	Integrated red LED standard (activated upon button press)
IP Rating	IP65
Operating Temperature	-40°C to +50°C, 5-95% RH (Non-condensing)
Dimensions	37 × 63.5 × 14.2 mm
Weight	20g

1.4 Output Formats

Transmitters are sequentially coded in either the industry standard 26-bit Wiegand format or custom Wiegand formats, with exact number sequences. As a cross reference the Transmitters' internal ID number is printed on the ID label found on the back of the Transmitter. Specific coding details, including format, facility code, and ID range can be found on the Transmitter shipping box, as well as the shipment's packing list.

1.5 Time Out

Ranger transmitters make use of a time-out feature to preserve battery life and prevent interference with other transmitters on the field. When a button is held down continuously the transmitter will transmit the code once and shutdown and will power up once the button is released.

1.6 Battery Replacement

Transmitters include a replaceable CR2032, 3.3V, lithium battery¹. The battery should be replaced when a button press does not result in a flash of the LED, reliable read range, and/or an output from the Receiver. To replace the battery, follow the directions below:

1. Using a coin, place it in the gap (2-piece unit) near the key ring holder and twist to pop the transmitter open.
2. Remove the old battery.
3. Insert the new CR2032, 3.3V, lithium battery. Be sure the plus (+) side of the battery is facing up (visible when installed).
4. Snap both pieces together.

1.7 Range

Read range between the Transmitter and Receiver depends on the Receiver model being used. Please review the Ranger Receiver datasheet for more information.

1.8 Troubleshooting

No data received/Transmitter not enrolled

Transmitter must be clicked twice to be learned by the Receiver upon initial Receiver power up.

Short read range/Receiver potentiometer

Adjustable potentiometer should be set to the maximum setting (certain models only).

Some buttons not working/Receiver capability

Receiver Model WRR-2 only works with buttons 1 and 2.

Red LED does not flash upon button press

Check that battery is installed correctly and is not dead (fully discharged)

Should any of the corrective actions mentioned above not improve performance, please contact us.

NOTES

1. This lithium battery is widely available, and commonly used in electronic devices, including cameras and remote controls.
2. Dispose of the battery according to local requirements. Recycle when possible.
3. For best performance the Transmitter should be used as far from interference sources as possible. These sources may include, but are not limited to, large metal obstructions, such as duct work and appliances, as well as magnetic fields and radio emissions.

Access Control Performance Levels Conforming to UL STD 294:

Destructive Attack	Line Security	Endurance	Standby Power
Level I	Level I	Level IV	Level I

Grade Classification Certified to CAN/ULC STD 60839-11-1:

Risk Level	Application	Skill/ Knowledge of Attackers	Typical Examples
Grade 1	Grade 1	Grade 1	Grade 1

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