

The Wireless Intelligent Door Entry System "WIDES" for your new and existing wiegand-based systems, with the convenience and security of radio frequency transmitters.

This wireless intelligent door entry system was designed to provide a long range solution for access control applications. Simply install the wireless receiver SA-WRI-1/2 to your access control panel that use wiegand based readers to provide a long range access control. Users need a system offers more convenient and faster access to garages, parking lots and gated communities than conventional card, keypad and key systems. And it offers two additional levels of security over conventional remote systems. The WIDES system easily upgrades low security, DIP switch selectable devices commonly used on automatic garage openers. Each transmitter is factory programmed with its own unique identity code. There are no DIP switches that can be easily copied or altered. Through the convenience of wireless remote transmitters, users can open doors and gates quickly and safely from inside their cars. There is no need to open windows to inclement weather.

Transmitters



SA-WT-1

SA-WT-2

Two basic styles of transmitters are available with the PAL system. The SA-WT-1/2 is a key tag style transmitter designed to fit onto a key ring.

Dimension: 57 x 38 x 12.7 mm (2.25" x 1.5" x 0.5")

The SA-WT-1 transmitter is a visor style transmitter designed to clip onto the automobile's interior visor for convenient operation. The visor style also comes with a two button version for applications requiring two access points in close proximity to each other.

Dimension: 88.9 x 63.5 x 19 mm (3.5" x 2.5" x 0.75")

All the transmitters are made from high impact polystyrene plastic to provide years of trouble-free operation. The black exterior color offers natural UV protection from fading and marks from normal wear.

Receiver



SA-WRO-1

The SA-WRO-1 receiver controls access from a Form C relay contact. A convenient F-connector is provided to install an antenna suited for the range requirement. With the appropriate antenna it is possible to reach ranges up to 152 m (500 feet).

Refer to the antenna installation product sheet for more information.

INSTALLATION

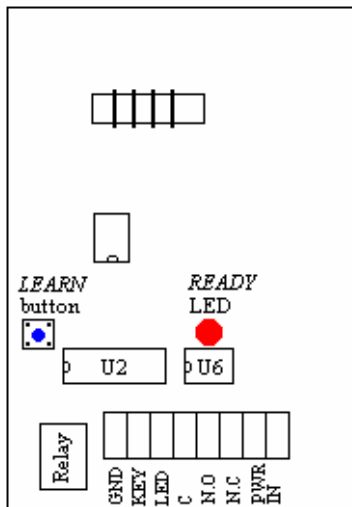
1. Do NOT mount receiver or antenna near any known source of interference (i.e. Proximity Card Readers, other RF receivers, heavy metal, metallic fences, motors, etc). The greater the distance between the receiver and the source of interference the better. A minimum of 2.4 m (8 feet) is recommended.
2. Ensure the voltage applied to the unit is a minimum of 20 volts. For proper wire connections refer to diagram below.
3. For maximum range, mount antenna high and in view at least 102mm (4 inches) from the wall.

ADD transmitter code/s to memory by pressing the LEARN button. Then transmit using SA-WT-1/2 while the READY LED is lit for 8 seconds.

To DELETE a single user code repeats the ADD procedure.

To CLEAR ALL memory (ONLY for new installations) push and hold the LEARN button until the READY LED stops flashing.

NOTE: Change transmitter battery regularly for maximum range. DO NOT move any components in transmitter.



Note: U2 (microcontroller EPROM)
U6 (memory EPROM)

This chip set can be removed and put into a replacement receiver to eliminate the programming process.

Common
Normally Open
Normally Closed
Power In 20-40 volts AC/DC
Power In 20-40 volts AC/DC

Carrier frequency	303.825 MHz
Data format	28bit-pulse width modulated
Receiver type	Super-regenerative detector front end
Detection circuit	Audio amplifier, secured microcontroller decoder
Output	Form C Relay
Voltage	20-40 volts AC or DC @ 50mA
Operating Temperature	-20 to +80 C (-4 to 176 F)
User Capacity	750 users.

*NOTE: Ranges may vary due to installation variables such as location of antenna and nearby sources of interference with the receiver. Ranges of up to **152 m (500 feet)** have been obtained with a dipole antenna and proper installation at an optimum site.*

Operation

Users simply press the button on the transmitter and the receiver will trip its momentary relay contact for as long as the transmitter is being pressed. Access control devices such as gate controllers wired to the receiver relay contact will automatically open for immediate access.