



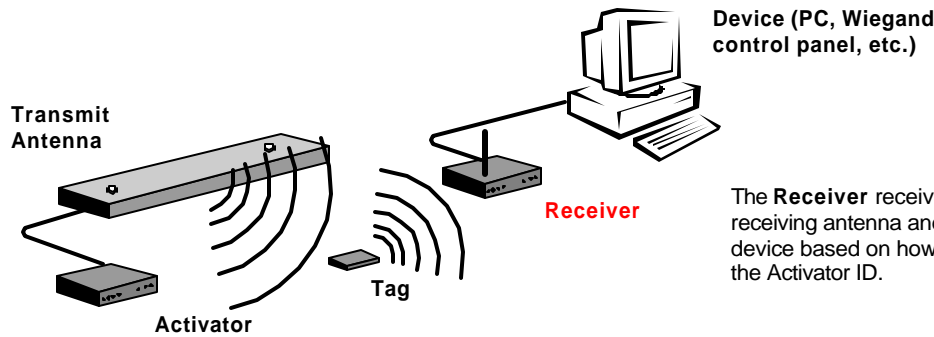
# Quick Start

Set Up

# A

## Receiver (Wiegand)

### Installation Overview Basic Installation



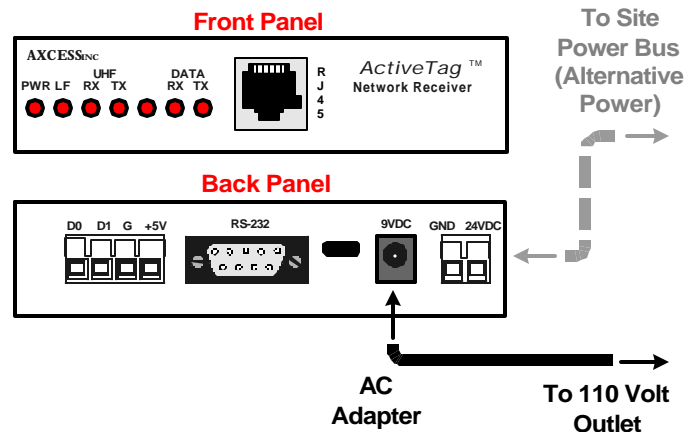
The **Receiver** receives the Tag's broadcast signal via its receiving antenna and sends the Tag data to a PC or control device based on how it has been programmed to respond to the Activator ID.

## 1

### Connecting Power

All Receivers come with a 4.4 VDC, 400 mA power transformer that plugs into a 110 VAC outlet. If uninterruptible power is an issue, a backup battery or UPS can be used. Power may also be obtained via the 24 VDC, 900 mA connector located on the back panel.

- Step 1:** Ensure that the 110V AC outlet is near the Receiver and is easily accessible.
  - Step 2:** Plug the AC adapter into the jack labeled 4.4VDC on the back of the Receiver.
  - Step 3:** Plug the unit into the power outlet.
- When power is supplied, the *PWR* LED on the front of the unit will light up.



## 2

### Configuring the Receiver

The Receiver has factory default settings that can be modified with commands given to the Receiver via Windows HyperTerminal.

#### Factory Default Settings

- Wiegand and TTL output capabilities enabled
- Wiegand and serial output is enabled
- Tag data with any valid Activator ID will be output
- No Wiegand data will be output for panic or tamper Tag alarms or for beacon reads.
- Diagnostics are turned off
- Serial output is set at 9600 baud with long format
- Receiver ID is 001

#### **Modifying Default Settings**

#### Required Materials

- A computer with a terminal program and a free communications port.
- A standard one-to-one (straight-through) computer modem RS-232 cable with a DB-9 male connector (Receiver end) and a suitable connector for the PC/terminal.



**DO NOT** use a null-modem cable or null-modem adapter.

# Receiver (Wiegand)

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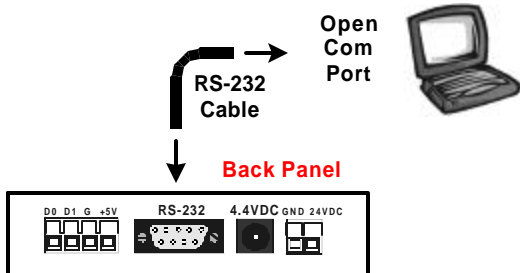
Set Up



## Receiver (Wiegand)

### Connecting a PC to the Receiver

- Step 1:** Attach the DB9 male connector of the RS-232 cable to the RS-232 port on the Receiver.
- Step 2:** Attach the other end of the RS-232 cable to the computer.



### Communicating via HyperTerminal

- Step 1:** From the *Start* button on the desktop, Select: **Programs**→ **Accessories**→ **Communications**→ **HyperTerminal**.
- Step 2:** Double-click the *Hypertrm.exe* icon to launch application.
- Step 3:** Enter any name for the connection and select the first icon. Click the **OK** button.



- Step 4:** Select the com port to which the Receiver is connected from the



- Step 5:** Enter the following information in the *Com Properties* dialog box:

**Bits per second** 19200  
**Data Bits** 8  
**Parity** None  
**Stop Bits** 1  
**Flow Control** None

- Step 6:** Click

### Receiver Responses

Command basic format: **<number><command>**

- It is not necessary to press the Return key after typing a command.

When a command is given to the Receiver, the Receiver will respond with one of the following responses:

Command	Receiver code Responses
00	Command completed successfully
05	Value entered is not allowed
06	Invalid or unknown command

## 3 Setting Up a Wiegand System

### Responding to Activator IDs

**DEFAULT:** Receiver will only output Wiegand data from Tags activated by Activator ID 127.

Action	Command
Change Activator ID	<new number>W
Enable response to multiple Activator IDs	33c
Return to single Activator ID	19c

### Alarm Output

**DEFAULT:** Receiver does not output Tag data containing alarm codes from Panic or Tamper Tags via Wiegand port.

Action	Command
Enable alarm data output	26c
Disable alarm data output	12c

## 4 Enabling TTL Outputs (Logic Control)

The Receiver has 2 Transistor-Transistor-Logic (TTL) outputs - each can be set to go from Low (inactive) to High (active) upon a tag read. The **output level is 3.3V DC**.

### Configuration

TTL Output 1	TTL Output 2	Action
<number>D	<number>E	Set length of action signal in seconds. Valid numbers are 000 - 255. Default: 005 seconds
10c	11c	Set output to go from Low to High; i.e. trigger a signal
16c	17c	Do not activate TTL output for a valid Tag read. Default.
30c	31c	Activate TTL output for any valid Tag read.
13c	14c	Do not activate TTL output when alarm code received from a Panic or Tamper Tag. Default.
27c	28c	Activate TTL output when alarm code received from Panic or Tamper Tag.

### Wiegand Output

While a Receiver sends Tag data to HyperTerminal as rapidly as it's received, it will still buffer the data being sent to the Wiegand control panel. When a Receiver that has been configured to output Wiegand data is in Diagnostic Mode, all Tag information is sent to the control panel.