Quick Start

Set Up & Installation

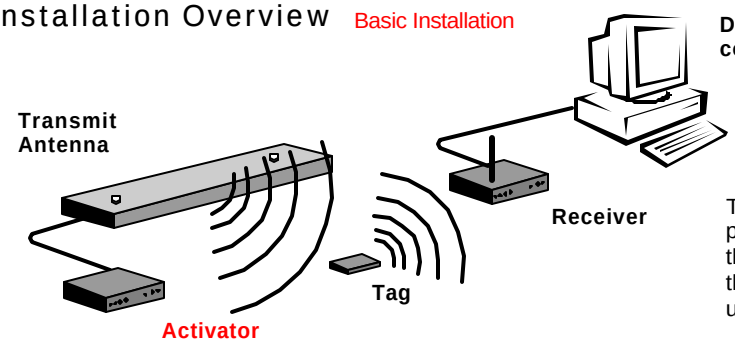
A

Activator

Activator

Installation Overview

Basic Installation



The **Activator** connects directly to transmit antenna to provide an activation signal that awakens tags as they pass through the antenna's field. The Activator writes its own ID to the tag, which is then retransmitted, along with the tag's unique ID, to provide the tag's location at time of activation.

1 Supplying Power

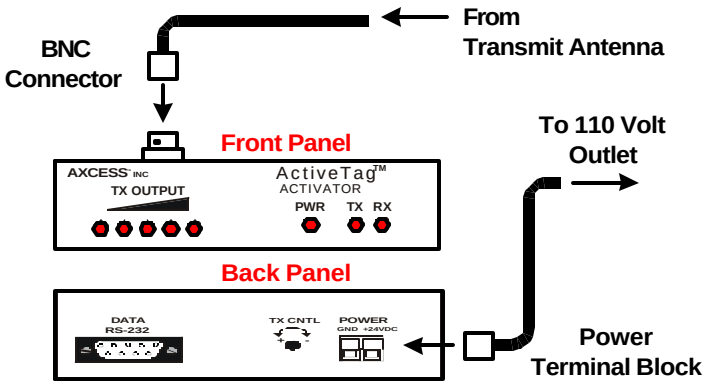
Activators come with a 24V DC, 1 Amp power transformer that plugs into a standard 110V AC outlet. The transformer is pre-wired into the terminal block at the factory. If uninterruptible power is an issue, a backup battery or UPS can be used.

Step 1: Connect antenna to Activator in order for the antenna auto-tune feature to function when power is applied.

Step 2: Plug the power terminal block into the back of the Activator.

Step 3: Plug the AC adapter into a 110-volt outlet.

When power is supplied, the LEDs labeled PWR & TX on the front of the unit will light up.



2 Setting the Activator ID

An Activator ID can be set by 2 methods:

- **Serial commands** (requires a computer or terminal device). This is the preferred method.
- **Hardware jumpers** if not terminal is available. (Please see Installation Manual for information)

All Activators are given the same ID (127) at the factory. Each Activator in a multi-Activator application needs a **unique ID** to ensure proper behavior of the system.

Required Materials

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

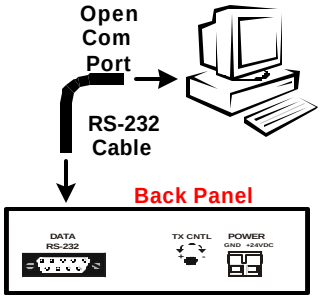
DO NOT use a null-modem cable or null-modem adapter.

Connecting a PC to the Activator

Step 1: Ensure power is applied to Activator.

Step 2: Attach DB-9 male connector of RS-232 cable to Data RS-232 port on Activator.

Step 3: Attach other end of RS-232 cable to an open com port on the PC.



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.

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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 or Activator is connected from the *Connect Using* drop-down list. Click the **OK** button.

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 OK

Changing the Activator ID Number

For Version 6 Tags: Type any number between 1 - 250 followed by (!).

If you type: **113!**
Activator response: **ID = 113**

Changing Baud Rate

To connect the Activator to a serial device, you can change the Activator's baud rate to match the baud rate of the device. The following baud rates are permissible:

Baud Rate	Command
4800	c
9600	d
19200	e - (default baud rate)

Receiving Help

Typing a question mark (**?**) displays a help screen listing all commands available for the Activator

```
c = 4800cps
d = 9600cps
e = 19200cps
<Num>! = ID
t = Automatic Tuning
<Num> S = Set Tuning
```

Tuning Activation Field

The Activator tunes the activating antenna to its environment. It can either be given commands to tune the antenna or it will automatically tune the antenna upon powering up.

To tune the antenna via serial command, type the letter: **t**

The Set Tuning command (<Num>s) listed in help screen was created for testing system. Use the t command or cycle power on the system to tune the antenna.

3 Activator Installation

Required Materials

- Power drill and bits
- Screwdrivers - Phillips & flathead
- Two screws (for wall mount)

Before permanently mounting any piece of the ActiveTag System, first lay out and test the entire system.

Step 1: Install the Activator as close as possible to the transmit antenna. The maximum distance is **50 feet** if using a RG-58 coaxial cable or **20 feet** if using the road loop leed-in wires.

Step 2: Cycle the power on the Activator after attaching the transmitting antenna in order for the antenna's auto-tune feature to function.

Step 3: Check the strength of the TX Output LEDs located on the front panel of the Activator. A minimum of 4 lit LEDs is desired.

TX OUTPUT

4 Basic Resizing the Activation Field

Each Activator is shipped from the factory with its activation control adjusted to its highest level.

The size of the field is controlled by the TX CNTL screw on the back of Activator. The screw can turn in one direction 30 times.

TX CNTL

Basic Adjusting of Activation Field:

To reduce the field - Rotate the screw **clockwise**. Constantly check field with an LED Test Tag to ensure that the field is the size that you want.

To enlarge the field - Turn the screw **counter-clockwise**. When it clicks, it has been turned up as high as possible.

The system will stop functioning if the activation control is turned down too low. Turn the screw counter-clockwise until it clicks. Then slowly reduce the field by turning the screw clockwise while checking its size.

After the field is adjusted, cycle the power on the Activator.

Refer to the **User Manual** for detailed information concerning adjustment of the Road Loop Antenna's activation fields.