®ADEMCO *(Draft 7/13/00)*

5800RL
Wireless Relay Module
INSTALLATION AND SETUP GUIDE

INTRODUCTION

The 5800RL Wireless Relay Module provides 2 form-C relays and operates in conjunction with either the LYNX* Self-Contained Control/Communicator or with other control panels that support the 5883 Transceiver Module and 5800 series devices. The 5800RL emulates the functions of a 5800TM with the 5800RL's relays activated via wireless signals from the LYNX/control. The 5800RL includes an internal case tamper switch, and is powered from a 12VDC or 9VAC external power source. The 5800RL sends tamper and supervision transmissions using its built-in serial number. The 5800RL's serial number must be enrolled by the Lynx or the control and assigned to a zone. Refer to the Lynx' or the control's installation instructions for details.

*** COMPATIBILITY**
The 5800RL is compatible with LYNX controls having software version 9.0 or higher.

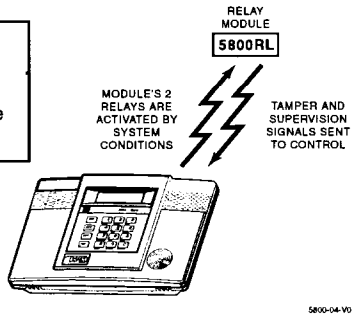

Figure 1. Block Diagram

POWERING THE 5800RL

The 5800RL can be powered from either an AC or DC external power source connected to terminals 7 and 8 (see Figure 2). Power source ratings are as follows:

Power Sources

Type	Rating
AC	9VAC, 15VA (e.g., ADEMCO 1332)
DC	12VDC, 100mA First cut the connector off the unit's cable, then strip the wire ends and connect to terminals 7 and 8.

NOTE: Use of power sources with higher or lower voltages may result in damage or a failure to operate properly.

RELAY and LED OPERATION

The 5800RL provides two, dry contact, form-C relays (SPDT, rated 2A, 28VAC/VDC). When used with LYNX, each relay activates upon certain system conditions. The red and yellow LEDs, located above the DIP switch, monitor the relay activity as shown below: The RF Interference LED monitors local radio frequency interference. If this LED is continuously lit, the 5800RL should be relocated.

Relay and LED Functions

Relay	LED	Activates Upon...
A	Yellow	Alarm conditions as follows: steady ON = burglary alarm (NO contact connects to COM) temporal ON = fire alarm (NO connects temporal to COM) OFF = no alarms active (NC contact connects to COM)
B	Red	System armed/disarmed as follows: ON = system armed away, stay, or instant (NO contact connects to COM) OFF = system disarmed (NC contact connects to COM)
N/A	Green	Normally on when power is applied. Flickering indicates microcomputer activity.

MOUNTING LOCATION GUIDELINES

Use the following guidelines when selecting a mounting location for the 5800RL Relay Module:

- Mount the 5800RL in a high location for best wireless reception.
- Do not mount the 5800RL on or near metal objects. This decreases range and/or blocks wireless transmissions.
- The 5800RL must be located at least 10 feet from any remote keypads to avoid interference from the microprocessors in those units.

WIRING AND MOUNTING

IMPORTANT: Before permanently mounting the 5800RL, you must perform the setup procedure described in the ***Setting Up the 5800RL*** section.

1. Remove the 5800RL's cover (insert the blade of a small screwdriver in the slot at the cover's top end and twist).
2. Disconnect any wiring already connected to the module.

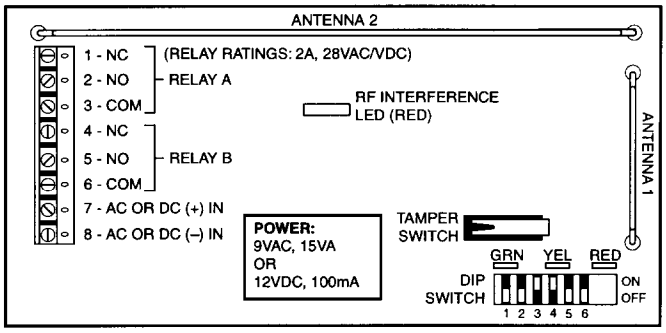

Figure 2. Connection Diagram

3. Hold the module in the desired mounting position and mark the mounting hole locations through the two mounting holes in the base of the module.
   Screws and plastic anchors are suitable for a typical installation, but any two suitable fasteners may be used that secure the base *firmly* to the mounting surface.

   Note: The external power supply unit should be mounted in close proximity to the 5800RL. This avoids voltage losses that occur on long power lines.
4. Connect relay and power wiring to the 5800RL's terminals. Refer Figure 2.
5. Place the front cover over the module, position the wiring in the exit slot, and snap the cover in place.

The 5800RL module should now be tested with the rest of the system.