R A D I O N I C S

D1254 Command Center Installation Instructions

Before You Begin

Before installing the D1254 Command Center you should be familiar with the following manuals:

- *D7112 Operation and Installation Manual* (74-06195-000)
- *D7112 Program Entry Guide* (74-06274-000)
- *D1254 User's Guide* (74-06196-000)

Description

The D1254 Command Center is a 4-wire digital command center used with the Radionics D7112 Control/Communicator panel. The D1254 features a keypad that illuminates when you press the keys, a 16-character English language display, and a built-in speaker that emits several distinct warning tones.

The panel supplies all power and data requirements for the D1254 via a simple 4-wire connection. The D7112 supports a maximum of four supervised D1254 Command Centers. If you are using more than four command centers, use a UL listed power supply or the D8132. Configurations combining supervised and unsupervised command centers are possible.

You can program the panel to generate messages to the D6500 identifying the supervised command center that is in trouble. If a command center loses communication with the panel for more than 60 seconds, the command center buzzes and CALL FOR SERVICE displays. The panel transmits a serial device trouble report (`SDI FAILURE` in Modem, `TROUBLE 2ND` in BFSK) to the receiver.

Depending on programming in the panel, the D1254 permits remote control of relays and real time clock display; adding, deleting and changing passcodes, system tests, and more. See the *Command Center* section of the program entry guide for complete programming details on command center options. You can initiate a variety of system commands with the touch of two or three keys at the D1254 keypad. To navigate through the system use the five keys near the bottom of the keypad.

The D1254 also has an Easy Menu feature. Easy Menus allow quick and easy access to system features. When using a D7112 you can program four Easy Menus.

Digital Keypad

The D1254 Command Center features a digital keypad for accessing the menus, entering user passcodes and executing system commands in the panel. As you press keys, the D1254 emits a muted beep tone (See *Audible Tones*) to indicate that the entry has been accepted. The keypad lights when you press keys, and remains lit for 20 seconds.

When entering a passcode, press keys within 15 seconds of each other. If **15** seconds elapse between keystrokes, the entire entry clears, and you must start over. The keypad also "times out" on other functions if you leave too long between key presses.

System Access Keys

The D1254 has five system keys. These keys help you access and move about the menu options offered in the panel.

ENTER Key	Selects the menu or selection displayed. Press **ENTER** after you finish entering your passcode
CLR Key	Exits the system command or menu displayed
NEXT Key	Forwards the display to the next menu or selection
PREV Key	Returns the display to the previous menu or selection
CMD Key	Accesses system commands when followed by the command number

Display

The D1254 Command Center displays the latest status conditions of the security system using words, numbers, and symbols in its display. When a series of events occur that affect the system, the D1254 displays each event in order of its priority.

For a complete listing and description of the D1254 16-character displays and command functions available, consult the *D1254 User's Guide* (71-06196-000) and the Program Entry Guide for the panel.

Audible Tones

The D1254 Command Center has a built-in speaker that produces several distinct warning tones. The speaker volume can be changed by adjusting the potentiometer, shown in Figure 1. Turn the potentiometer clockwise to increase and counterclockwise to decrease the volume. The speaker volume also changes as you adjust the brightness of the display. You cannot connect external annunciation devices to the D1254. The following signals are silenced by entering a programmed passcode with the appropriate authority.

Burglary Signal	When an area is in alarm, the D1254 emits a **steady,** high-pitched "bell" tone.
Entrance Warning	The D1254 emits an intermittent beep tone during entry delay periods to remind the user to disarm the alarm system. This is a programmable option.
Exit Warning	The D1254 emits an intermittent beep tone during exit delay and counts down the number of seconds left until arming takes place. This is a programmable option.

Audible Tones (continued)

Fire Signal	When an area is in fire alarm, the D1254 emits a **pulsed,** high-pitched "bell" tone.
Invalid Key Buzz	When an invalid key, or sequence of keys, is pressed, the D1254 emits a flat buzz tone.
Keypad Encoding Tone	The D1254 emits a muted beep tone as each key is pressed to indicate that the entry has been accepted. To disable this feature see *Setting the DIP Switches.*
Trouble Buzzer	When a system trouble event occurs, such as a service alert, the D1254 emits a two tone warble until you select a proper menu item or enter your passcode.
Watch Tone	When you activate the Watch feature, an intermittent beep tone (the same as the Entrance Warning Signal) alerts the user anytime a perimeter point is faulted. This is a programmable option.

DIP Switch Settings and Associated Functions

Located under the D1254 Command Center cover (Figure 1), a six-position DIP Switch allows you to select the address of each command center, and silence the keypad encoding tone.

To access the dipswitches, remove the front cover. Using a small flat-bladed screw-driver, gently push in the two bottom tabs of the enclosure cover. As the tabs are pushed in, lift the cover away from the base.

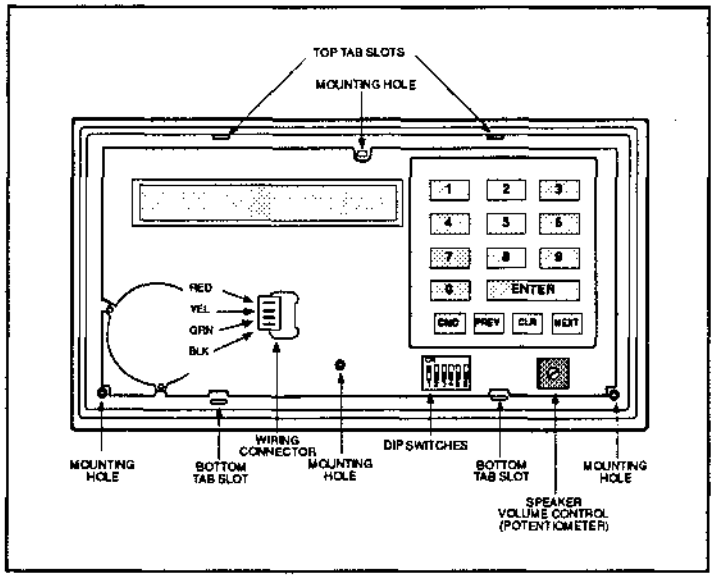

Figure 1:

D1254 Internal Features

Setting the DIP Switches

For supervised command centers, assign only one command center to each address.

		ADDRESS			
		1	2	3	4
SWITCH	1	ON	OFF	ON	OFF
SWITCH	2	ON	ON	OFF	OFF
SWITCH	3	ON	ON	ON	ON
SWITCH	4	LEAVE ON - DO NOT USE			
SWITCH	5	ENCODING TONE ON/OFF			
SWITCH	6	LEAVE ON - FACTORY TEST			

Figure 2: Switch Settings

Mounting the D1254

The D1254 Command Center is a low profile, surface-mounted unit. It can also be mounted using the following optional packages:

- D56 Command Center Keypad Conduit Box - Protected surface mount or flushmount
- D55 Command Center Desk Stand - Desktop
- D54B Command Center Flushmount Kit (Brass)
- D54C Comand Center Flushmount Kit (Stainless)

Mounting Locations: Do not mount the command center in a location where it will be exposed to direct sunlight. Direct sunlight can interfere with the D1254 display screen visibility and damage internal components. Do not mount the D1254 in wet or moist locations.

Wiring the D1254

A 4-wire flying lead is required for the data and power connections between the D1254 and the panel. The D1254 comes with a wiring assembly consisting of four color-coded flying leads and a female 4-pin connector plug at one end. The maximum recommended wire run for each D1254 is 2000 ft. with 22 gauge wire.

To wire the D1254:

1. Power down the panel.
2. Using a small flat-bladed screw-driver, gently push in the two bottom tabs of the D1254 enclosure cover. As the tabs are pushed back, lift the D1254 cover away from the base.
3. Set the address switches as shown in *DIP Switch Settings & Associated Functions*.
4. Connect the flying leads of the wiring assembly (provided) to the wires from the panel, as shown in Figure 3.

Wiring the D1254 (continued)

5. Turn the command center over and plug in the wiring connector through the opening in the back of the enclosure base.

6. Mount the command center base in the desired location. Secure it in place using the mounting holes inside the enclosure base.

7. Replace the cover. Align and insert the top two tabs of the enclosure cover into the top two tab slots of the enclosure base. Hold the top edges of the enclosure cover and base in position. Push the tabs inward and press the enclosure and cover together until the cover snaps into place.

8. Press each key on the keypad toward the top of the command center to ensure proper alignment and operation of each key through the mating keypad faceplate openings.

4-Wire Flying Leads from D7112	D1254 Flying Leads
SDI BUS B (25)	to Data Out (Green)
SDI BUS A (26)	to Data In (Yellow)
SDI POWER + (27)	to12 VDC (Red)
SDI COMMON - (28)	to Common (Black)

Figure 3: Wiring Connections

Specifications

Power
Nominal 12 VDC supplied by the panel

Current Required
Idle: 104 mA, armed or disarmed.
Maximum: 206 mA, with command center lighted and warning tone ON.

Wiring
4-wire expansion cable supplies Data In, Data Out, +12VDC, and Common.

Maximum resistance on the conductors connected to SDI BUS A and SDI BUS B is 25Ω.

Radionics has tested the D7112 system with 10 command centers at 2000 ft with 22 gauge wire.

Dimensions
Height: 4.56", Width: 8.15", Depth: 0.816"

Color
Warm Gray

Display
16-character vacuum fluorescent display. Each character is a 14-segment unit. Soft blue color.

Operating Temperature
32° to 122° F (0° to 50°C)

Relative Humidity
5 to 85% @ 86°F (30°C)