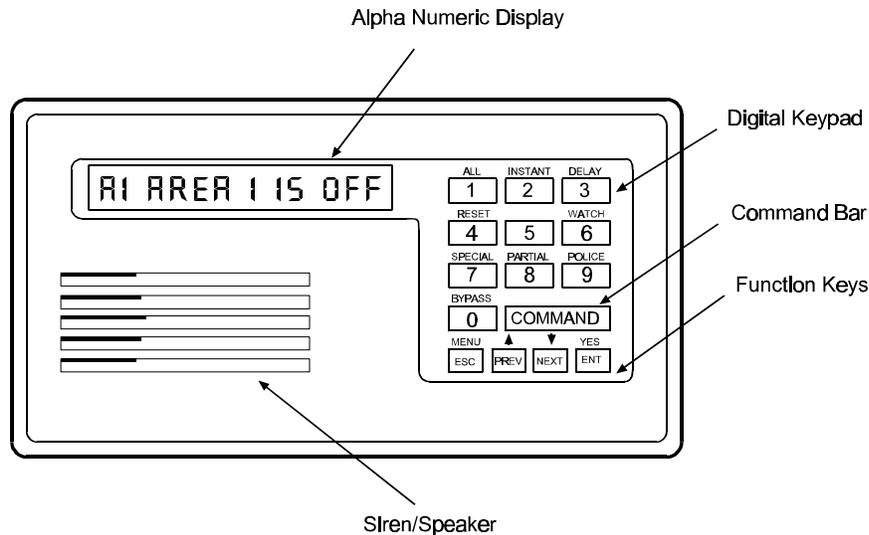




Radionics™

D1255 Command Center Installation Instructions



Description

The D1255 Command Center is an SDI Bus compatible device used with Radionics control/communicator panels. The D1255 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 D1255 via a simple 4-wire connection. For specific panel compatibility refer to the Panel Compatibility Chart in the Specifications Section of this document. See the *Current Rating Chart for Standby Battery Calculations* provided in the Operation and Installation Manual for the specific panel used with the D1255 to determine if you need an additional power supply. 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 ZN D in BFSK) to the receiver.

Depending on programming in the panel, the D1255 permits remote control of relays and real time clock display; adding, deleting and changing passcodes, system tests, and more. See the *Command Center* and *User Interface* sections 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 D1255 keypad. To navigate through the system use the five keys near the bottom of the keypad.

Digital Keypad

The D1255 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 D1255 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 wait too long between key presses.

Command Center Function Keys

The D1255 has five function keys. These keys are used to control your system.

| | |
|--------------------|---|
| COMMAND | Use the COMMAND bar in combination with one or two numeric keys to perform a function. |
| ENT/YES Key | Use the ENT(enter)/YES key to complete the entry of your passcode at the command center. The second function of the ENT/YES key is to select the menu item displayed. |
| PREV Key | When viewing a list, pressing the PREV key will take you back to the previously shown item. |
| NEXT Key | Press the NEXT key to pass over the present item in a menu or list. |
| MENU/ESC | First, use the MENU/ESC key to show the command center functions that are programmed in the <i>Command Menu</i> . Second, use the MENU/ESC key to take you back to the idle display. |

Display

The D1255 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 D1255 displays each event in order of its priority.

For a complete listing and description of the D1255 16-character displays and command functions available, consult the Security System User's Guide (71-06141-000) and the Program Entry Guide for the panel.

Audible Tones

The D1255 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. See Command 49 "Dim Display" in the Security System User's Guide for more information. You cannot connect external annunciation devices to the D1255. The following signals are silenced by entering a programmed passcode with the appropriate authority.

| | |
|------------------------|---|
| Burglary Signal | When an area is in alarm, the D1255 emits a steady , high-pitched "bell" tone. |
|------------------------|---|

Audible Tones (continued)

| | |
|-----------------------------|--|
| Entrance Warning | The D1255 emits an intermittent beep tone during entry delay periods to remind the user to disarm the area. This is a programmable option. |
| Exit Warning | The D1255 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. |
| Fire Signal | When an area is in fire alarm, the D1255 emits a pulsed, high-pitched "bell" tone. |
| Invalid Key Buzz | When an invalid key, or sequence of keys, is pressed, the D1255 emits a flat buzz tone. |
| Keypad Encoding Tone | The D1255 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 trouble event occurs, such as a service alert, the D1255 emits a two tone warble until you enter COMMAND 4. |
| Watch Tone | When you activate the Watch feature, an intermittent beep tone (the same as the Entrance Warning Signal) alerts the user anytime a watch point is faulted. This option is programmable by point. |

DIP Switch Settings and Associated Functions

Located under the D1255 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.

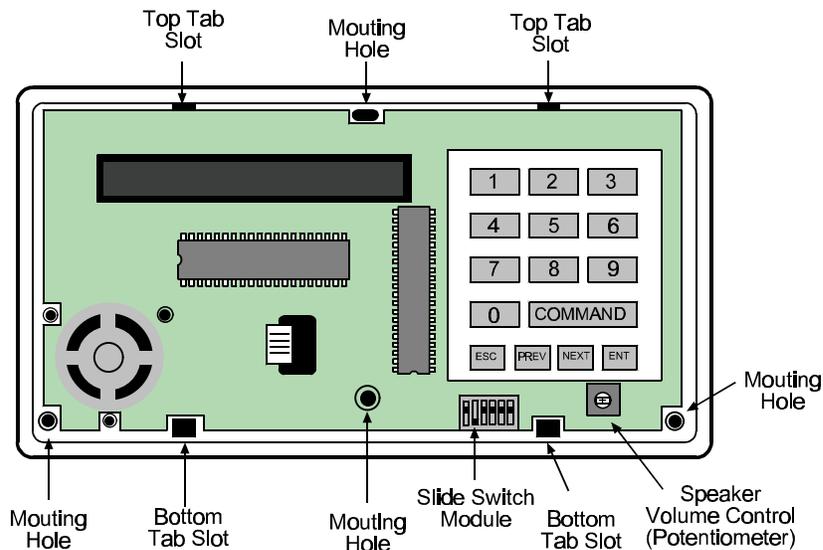


Figure 1: D1255 Internal Features

Setting the DIP Switches

Switches 1 through 4 and 6 assign the address for the specific command center.

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

Switch 5 toggles the encoding tone ON and OFF. With the encoding tone turned ON, the command center will sound a beep every time a key is pressed.

| Address # | Switch | | | | | |
|------------|--------|-----|-----|----|----|----|
| | 1 | 2 | 3 | 4 | 5* | 6 |
| Address #1 | ON | ON | ON | ON | | ON |
| Address #2 | OFF | ON | ON | ON | | ON |
| Address #3 | ON | OFF | ON | ON | | ON |
| Address #4 | OFF | OFF | ON | ON | | ON |
| Address #5 | ON | ON | OFF | ON | | ON |
| Address #6 | OFF | ON | OFF | ON | | ON |
| Address #7 | ON | OFF | OFF | ON | | ON |
| Address #8 | OFF | OFF | OFF | ON | | ON |

* Encoding Tone On/Off

Figure 2: Switch Settings

Mounting the D1255

The D1255 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 flush mount
- D55 Command Center Desk Stand - Desktop
- D54B Command Center Flush Mount Kit (Brass)
- D54C Command Center Flush Mount 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 D1255 display screen visibility and damage internal components. Do not mount the D1255 in wet or moist locations.

Wiring the D1255

A 4-wire flying lead is required for the data and power connections between the D1255 and the panel. The D1255 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 D1255 is 2000 ft. with 22 gauge wire.

To wire the D1255:

1. Power down the panel.
2. Using a small flat-bladed screw-driver, gently push in the two bottom tabs of the D1255 enclosure cover. As the tabs are pushed back, lift the D1255 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.
5. Turn the command center over and plug in the wiring connector through the opening in the back of the enclosure base.

Wiring the D1255 (continued)

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 Control/Communicator | D1255 Flying Leads |
|---|---------------------|
| DATA BUS B (30) | to Data Out (Green) |
| DATA BUS A (31) | to Data In (Yellow) |
| POWER + (32) | to 12 VDC (Red) |
| COMMON - (29) | to Common (Black) |

Figure 3: Wiring Connections

Specifications

| Control Panel | Maximum Number of Command Centers | |
|---------------|-----------------------------------|--------------|
| | Supervised | Unsupervised |
| D9412 | 8 | 32 |
| D9112 | 8 | 32 |
| D7412 | 8 | 32 |
| D7212 | 8 | 32 |

Figure 4: Panel Compatibility Chart

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 25 Ω.

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)



Radionics[™]

© 1997 Radionics, Inc., Salinas, CA, U.S.A. All rights reserved.

[™] The Radionics logo is a registered trademark of Radionics, Inc., Salinas, CA, U.S.A.

Radionics, Inc., 1800 Abbott Street Salinas, CA, 93901, U.S.A. Technical Support: (800) 538-5807