



RadionicsTM

D206 Keypad Installation Instructions

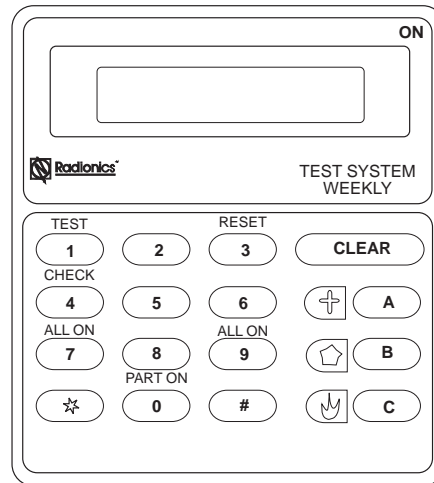


Figure 1: The D206 Keypad

Description

The D206 Keypad is a low-profile, surface-mount, three-wire unit for use with the Radionics D2212 Control/Communicator. The D206 features an illuminated keypad, a backlit two-line LCD text display, an armed status indicator, three programmable emergency keys, and a built-in sounder that emits several distinct tones.

The control/communicator supplies all power and data requirements for the D206 using a simple three-wire connection. Depending on the panel's available auxiliary power, you can install up to eight D206 Keypads in one system.

You can program custom text locally using either the D5200 Programmer or keypad programming. It takes 15 seconds after a programming session for new custom text to replace the old text. If using the D5200, be sure to lock the panel's standby pin down **before** connecting the programmer. You can program text remotely using the D5300, RAM II.

The Display

The D206 Keypad continuously displays the latest status conditions of the security system. When a series of events occur that affect the system, the D206 displays each event by priority, for example, the D206 displays alarms before point faults.

The LCD display is normally illuminated constantly. You can choose to make it illuminate only after a key is pressed. With this option, the display and backlights extinguish after approximately 20 seconds. Press and hold the **CLEAR** key for five seconds to toggle this feature. If you're turning the display off, hold the **CLEAR** key until the display turns off. If you're turning it on, hold **CLEAR** until you hear a beep.

The Keys

The D206 Keypad has a CLEAR key, a * key, a # key, three emergency keys, and number keys from 0 to 9. These keys are used to enter functions and personal passcodes into the panel.

Response Tones

The D206 Keypad contains a sounder used to announce several system conditions. You can disable the sounder if you choose.

Installing the Keypad

Select a Mounting Location - Do not locate the D206 in areas of extreme cold for example, in an uninsulated building, refrigerated areas, outdoors, or in areas where the temperature can drop below 32°. Do not mount the keypad in a location exposed to direct sunlight. Direct sunlight makes the display less visible and may also damage the keypad components.

Route Keypad Wire - Route the wire to the keypad location. See the panel's installation manual for information about the maximum length of keypad cables and wire resistance. Route data wire runs away from electrical, telephone, and other data wiring.

Splice Connectors to the Wires - The three-wire cable connects to the panel. Use solder to splice the connector to the wires. Be sure to insulate all exposed splices with tape so that they do not short to one another.

Remove the Front Cover - Remove the front cover from the enclosure base. Insert a small, flat-bladed screwdriver into the tab on the bottom of the control center and gently separate the cover from the base.

Connect the Keypad - Plug the data wire into the serial data wiring connector (J1) in the keypad. (see Figure 3)

Mount the Enclosure Base - While pushing any excess keypad wire back into the wall or gang box, place the enclosure base on the wall in the desired location. Use a center punch or a pencil to mark the locations of the mounting holes.

You can mount the enclosure base to a recessed single-gang wall box if desired. Secure the enclosure base to the wall or gang box.

Connect the Keypad Wire to the Panel - The maximum length for all wires connected to D2212 terminal 8 combined is 500 feet. Route data wire runs away from electrical, telephone, and other data wiring.

Figure 2 shows a typical installation using one D206 Keypad. Use parallel connections for additional keypads. For more information refer to the *D2212 Installation Manual* (74-07361-000).

Assigning the D206 to a Device Address - Before you begin, be sure that the panel's standby pin is locked down to prevent missing point reports being sent. To set the D206 keypad's address, follow these steps:

1. Turn DIP switch #1 to the **ON** position.
2. The display shows:

SET ADDRESS MODE
ADDRESS IS ##

3. Enter the address (1 to 8) with a leading zero (for example, 01 for address 1).

Important! Use only address numbers 1 to 8.

4. Set dip switch #1 back to the **OFF** position.

If you are going to use a D206 keypad, at least one D206 must be set to address 1.

The panel's program affects the keypad's address:

Choose the keypad address in the panel's program. Select **Text Keypad** for the device type of the chosen address. For more information, see *Address Configuration* in the *D2212 Program Entry Guide* (74-07386-000).

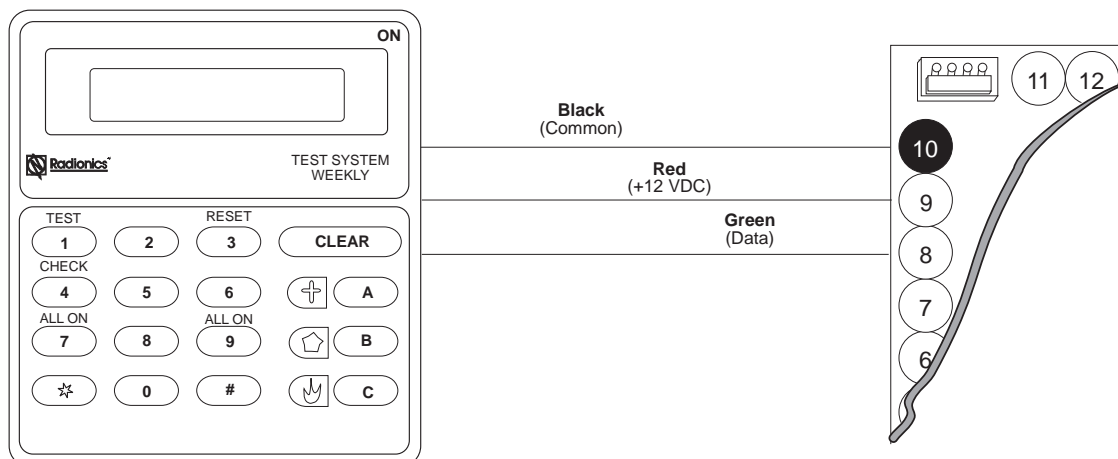


Figure 2: Wiring the D206 to the D2212

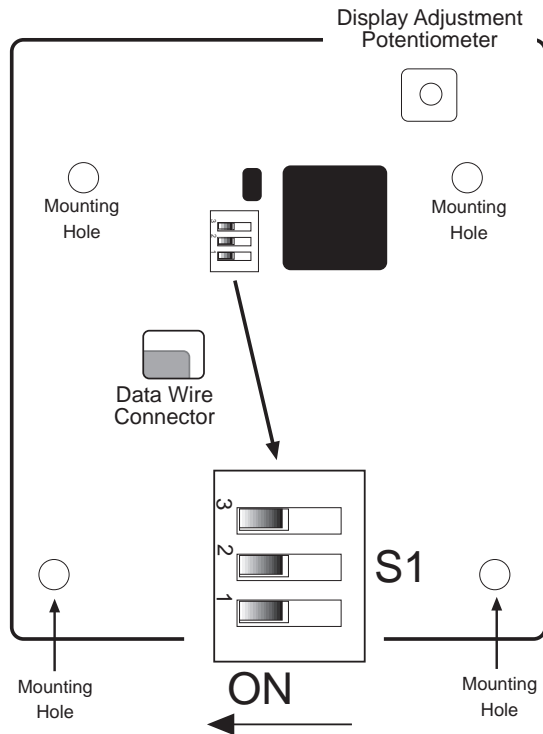


Figure 3: Inside the D206

If a D206 at address 1 is to be replaced, and the system has custom text, you must do the following in order to preserve the custom text:

1. Using a D5200, copy and save the panel's program.
2. Attach a new D206 at address 1.
3. Reprogram the panel using the copied program.

Keypad Sounder Disable - To disable the sounder, turn DIP Switch #3 **OFF** (see Figure 3).

Fire Points need the trouble sounder: Disabling the sounder with switch #3 stops the D206 from annunciating fire point trouble. If fire points are installed as part of this system, contact the local AHJ to verify code requirements for fire trouble sounders before disabling the D206 sounder.

Enable sounder for UL systems: For UL installations, the sounder on at least one keypad in the system must remain connected.

Adjust the D206 Display - With the D206 mounted to the desired surface, view the display from the approximate angle for the user. If the display requires adjustment for clarity, use the Display Adjustment Potentiometer (R50) in the lower right-hand corner of the D206 circuit board.

Replace the Front Cover - Align the top two tabs of the enclosure cover with the top two tab slots in the enclosure base. Slide the top of the cover into the base. Gently push the bottom of the cover down on the base until it snaps into place.

Adjust the Keys - Push each key on the keypad towards the top of the enclosure to ensure proper mating with the openings in the top cover.

D206 Keypad Specifications

Operating Voltage:

Nominal 12 VDC supplied by the control/communicator auxiliary power supply.

Current Requirements:

Maximum: 140mA

Normal: 85mA LCD on.

Standby: 30mA No keypad backlighting.

Enclosure Dimensions:

Height 5.0", Length 4.5", Depth .94"

Color: Off white, White

Operating Temperature:

0 to 50 °C (32 to 122 °F)

Non-condensing Relative Humidity:

5 to 85% at 30 °C (86 °F)

Keypad Wiring:

Three-wire cable supplies data-in, common, and positive voltage.

Display:

ON Indicator: Lights when system is All or Part On.

LCD Display: Two-line 16-character, Liquid Crystal Display (LCD). The user can select to have the display backlit constantly, or when a keypad digit is pressed.

D206 Switch Settings

Switch #	ON	OFF
1	Set Address	Normal Operation
2	—	—
3	Enable Sounder	Disable Sounder

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