Radionics™

D2112 Keypad Diagnostics

Putting the Keypad into the Diagnostics Mode

1. Lock the D2112's Standby Switch down.

2. Press the **1** key on the keypad.

3. Enter your "Installer" passcode. The default Installer passcode is 654321. The default passcode length is 3, so if you have not changed the default entries, press **654**.

   Lights on the keypad indicate the functions that are available.

Now that you're in...

When you select a function the light next to the key winks to let you know what function you are in. Once inside a function, press (CLEAR) to return to the previous level.

1	**Bell Test**
2	**Battery**
3	**Communication**
4	
5	**Point Status**
6	**Relays**
7	**Power Supply**
8	**Program**

Bell Test

<div style="text-align: right">1</div>

The Bell Test powers the external bell with the burglar pattern for 2 seconds.

• Press (1)

The Bell Test times out after 2 seconds.

Battery Test

<div style="text-align: right">2</div>

The Battery Test causes the panel to run on battery only for 4 minutes. During this time if the voltage drops below 12.2, the trouble tone sounds and the low battery condition appears in the "Check Trouble Mode".

When the Battery Test is initiated by the user initiating "Test System", a Low Battery report or a Missing Battery report will be sent if programmed.

• Press (2).

The Battery Test times out in 4 minutes.

Communication Test

<div style="text-align: right">3</div>

The Communication Test sends a Test report to the receiver. If the report fails to be acknowledged after all dialing attempts, the D2112 goes into Communications Failure.

• Press (3).

The Communication Test times out immediately.

Point Status

The Point Status function displays the electrical state of all points. The state of each point is shown with its corresponding light.

1. Press (5).

   The lights update every second.

Light	Point State
OFF	Normal
WINK	Open
ON	Short

2. Press (CLEAR) to exit this test.

Relays

The Relays function can activate either of the two external relay outputs.

1. Press (6) to enter the Relays function.

2. Press and hold (1) to activate relay 1.
   ...light 1 will be on while you hold the key.

3. Press and hold (2) to activate relay 2.
   ...light 2 will be on while you hold the key.

4. Press (CLEAR) to exit this test.

Power Supply Status

The Power Supply Status function performs four different tests on the power supply and battery.

The results of the test are displayed as a bar graph using lights 1 through 8.

For example: If the current consumption is at 500mA, lights 4, 5, 6, 7 and 8 are on.

When a test indicates an overload condition, the bar graph flashes.

Power Supply Status (Cont'd) $\boxed{7}$

To enter the Power Supply Status mode,

1. Press (7).

   Light 7 winks to let you know that you're in the Power Supply Status function.

…To display Fire Alarm Load

2. Disconnect the battery.

3. Press (1).

   The bell and external relays activate, and the current consumption displays.

4. Hold the Current Consumption scale next to your keypad. Verify that the current consumption is less than 860mA.

5. Press (CLEAR).

6. Reconnect the battery.

…To display Normal Supervisory Load

2. Disconnect the battery.

3. Press (5).

   The current consumption displays.

4. Hold the Current Consumption scale next to your keypad and verify that the current consumption is less than 350mA.

5. Press (CLEAR).

6. Reconnect the battery.

Current Consumption Scale

		mA	Light
Maximum Fire Alarm Load	☞	**860**	☐ 1
		732	☐ 2
		605	☐ 3
		477	☐ 4
Maximum Normal Supervisory Load	☞	**350**	☐ 5
		222	☐ 6
		95	☐ 7
			☐ 8

When a test indicates an overload condition, the bar graph flashes.

Power Supply Status (Cont'd from page 4)

…To display the Minimum Battery Voltage After 1 Minute

2. Make sure the battery is connected.

3. Press (2).

   The D2112 automatically disconnects AC. The keypad displays the lowest battery voltage during the test, and gives an acknowledge tone after 1 minute.

4. Hold the Battery Voltage scale up next to your keypad. Verify that the battery does not drop below 13.25 volts within the minute.

5. Press (CLEAR).

…To Read Battery Voltage

2. Make sure the battery is connected.

3. Press (4).

   The battery voltage displays.

4. Hold the Battery Voltage scale up next to your keypad to see the voltage level. A low battery condition displays by flashing lights 5, 6, 7, and 8.

5. Press (CLEAR).

Battery Voltage Scale

	Volts	Light
	13.75	☐ 1
Minimum Battery ☞	**13.25**	☐ 2
Voltage after 1 Minute		
	12.75	☐ 3
Read Battery ☞	**12.25**	☐ 4
Voltage		
	11.75	☐ 5
	11.25	☐ 6
Low battery flashes lights 5, 6, 7, 8.		
	10.75	☐ 7
	10.25	☐ 8

Programming

Function 8 is the Keypad Programming Mode. For complete instructions on programming from the keypad, see the *D2112 Control/ Communicator Program Entry Guide* (74-07112-000).

System Troubles

This diagnostic check is available in the user's **Check System** (Key 4) mode.

1. Exit the Diagnostics Mode.

2. Press (4).

   If light 5 is lit a system trouble exists. To find out what the trouble is,

3. Press and hold key (5). The lights indicate the specific type of trouble:

Low or Missing Battery	1	
Standby Switch Locked	2	
Aux Power Trouble	3	
Bell Power Trouble	4	

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