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## D2412U-05A Firmware Revision 3.03 Release Notes

### Point Response Time

The D2412U Installation Manual says the panel scans point sensor loops every 500 milliseconds. The D2412U-05A panel scans the point sensor loops every 150 milliseconds. A point must still be faulted for two scans (now 300 milliseconds) before the panel initiates on alarm.

### Keyswitch Point Type Modified

Setting Digit 1, Point Type, of a point code to 'A' configures that point as a keyswitch input. The D2412U Installation and Programming Manuals identify the panel's keyswitch functionality as 'momentary'. Shorting the point's sensor loop and returning it to normal toggles the arming state between Off and On.

In the D2412U-05A, the keyswitch functionality has been modified to be 'maintained'. Shorting a keyswitch point's sensor loop moves the panel to the All On arming state. As long as the short remains on the loop, the panel remains All On. Returning the sensor loop to normal moves the panel to the Off arming state. An open on the sensor loop generates a trouble event when the panel is Off and an alarm event when the panel is On.

The Keyswitch prompt in the SYSTEM CONFIGURATION GROUP should not be programmed for Easikey. The D2412U-05A does not support the Easikey Disarm Only function. Keyswitch points will function as "maintained," regardless of the Keyswitch Prompt Programming.

### Fire or Combined Fire Installations Require Supervised Alarm Output

Effective August 3, 1998, alarm output for fire or combined fire/burglary installations must be supervised. Use a D132A Smoke Detector Reversing Relay Module and compatible smoke detectors with built-in sounders, such as the D282THS. See the Smoke Detectors Compatible Technogram (P/N: 35112) for details. An alternative would be to use the D192C Notification Appliance Circuit Supervision Module.

Both of these alternatives are available in kit form. All of the kits include the larger D2203 enclosure. The D2412F192 includes the panel, enclosure, transformer and D132A Module. The D2412F282 includes the panel, enclosure transformer, D132A Module and three D282THS Smoke Detectors.

### New RF Receiver Trouble, Receiver 'Jammed'

When used with RF Receivers with firmware revision 9.0 (or later), D2412s with revision 3.03 firmware (or later) can display two distinct trouble conditions. The receiver trouble display is expanded to two lines:

RCVR # TROUBLE  
2111

# is the receiver number (7 or 8).

2111 in the second line indicates that no sensor has been heard from in a calculated interval. The interval depends on the number of sensors in the system.

RCVR # TROUBLE  
1211

# is the receiver number (7 or 8).

1211 in the second line indicates that the receiver is in a 'jammed' condition. Interference is at level that prevents sensor transmissions from being received.

### RF Sensor Low Battery

With earlier revisions of panel firmware, users could silence a low FR fire sensor battery trouble indefinitely. With revision 3.03 (or later), the panel restarts the trouble sounder at the keypad within four hours if the low battery in the fire sensor is not replaced.

### Modem Format Only

Changing the Rcr Format prompt to Pulse **does not** change the reporting format to 4x2 Pulse as indicated in then *D2000 Program Entry Guide*. The D2412U only reports in the Modem IIIa<sup>2</sup> format. The 4x2 Pulse Format is not available.

## The 'Alarm on 2 Fail' Feature Does Not Work Correctly

The panel should activate the Alarm Output (bell) after 2 failed attempts to transmit an alarm from any point when the panel is 'On' (armed) and the 'Alarm on 2 Fail' prompt for the Bell programming is set to 'Yes'. When panels with Firmware revision 2.53 (and later) have more than one report to send (for example, alarm and restoral), they actuate the Alarm Output (Bell) after 3 failed attempts.

## Alarm Output

### Pulse Format Changed

Points can be programmed for either Steady or Pulse alarm output. See Point Codes, Digit 2, in the *D2000 Program Entry Guide*. With firmware revision 2.53 (and later), the pattern for the Pulse format changes from repeating 0.5 seconds on, 0.5 seconds off, to the Temporal Code 3 pattern. The pulse format now repeats: 0.5 seconds on, 0.5 seconds off, 0.5 seconds on, 0.5 seconds off, 0.5 seconds on, 2 seconds off.

## Compatible with D169 2-Way Voice Verification Module

With revision 2.53 (and later), the panel is compatible with the D169 2-Way Voice Verification Module. For panels **NOT** connected to a D169, **do not** set the Delay Alrm Rpt prompt to 255. Setting this prompt to 255 may cause unexpected panel behavior if a D169 is not connected to the panel.

## Relay Function 24 Changed

Revision 2.53 (and later) changes relay function 24 from **RF, Special Key** to **Voice Request**. The Voice Request relay activates for two seconds when the acknowledgment of an alarm report from an Alarm Report Delay point (Digit 2 = 2, 3, 7, or 8) is received at the panel.

The Voice Request relay function is intended for use with an optional D169 2-Way Voice Verification Module. Relay function 24 as, RF Special Key, used to be able to be toggled on and off by pressing the special key (\*) on RF Keypads.

## RF Point Expanders

Programming the panel for a 16 point RF point expander (**POINT EXPANDER, 16**) when the 8 point RF point expander was actually installed causes **RECEIVER FAIL** and **RECEIVER RESTORAL** messages to be sent the D6500 on each reset.

Any RF point expander connected to the D2412U must have a programmed address (see *Address Configuration* in the *D2000 Program Entry Guide*). Installing an RF device and powering it up without programming an address for the device will cause unexpected system operation.

## Wait to Power Down After Programming

After any programming session, do not power down the panel for 60 seconds. Removing power within 60 seconds may cause the loss of keypad text.

## Remote Program (Key 2)

After pressing the 2 key and entering an Owner passcode to enter the Remote Program mode, the display shows **SYSTEM PROGRAM IN PROGRESS**. If the CLEAR key is pressed to return to the Off state, the system will not allow re-entering the Remote Program mode for 30 seconds.

## RAM II Command Clears Message

Sending a Reset Sensor command from Panel Status of RAM II clears the SYSTEM PROGRAM IN PROGRESS message from the keypad. The display returns to the idle state.

## Alarm Verification for Point 1 Only

Alarm verification is intended for smoke detectors on point 1 only. Do not program any other points for alarm verification. Programming other points for alarm verification will cause unexpected panel behavior, including the potential loss of alarm events.

## WARNING!

### Disable System Prompt Disables: Installer Code, Keypad Programming, RAM II Status Screen

Setting the Disable System prompt to YES to disable the system disables the Installer Passcode, Keypad Programming, Keypad Diagnostics and the RAM II Status screen even after returning the prompt to NO!. To remedy the situation, turn the system ALL ON with the Delay. Wait for the exit delay to expire then turn the system off. The Installer Code, Keypad Programming, Keypad Diagnostics, and the RAM II Status screen return to normal operation.

## **Premises RF Arming Devices Appear as 'Disabled' Points in RAM II**

Points programmed for premises RF arming devices, such as wireless keypads and keychain keypads, are displayed as 'disabled' in RAM II status screens. They appear as disabled even after the arming devices are 'learned' into the system.

## **Watch Tone Display**

If, after pressing the 7 key to view the Watch Tone settings, you press the \* key inadvertently while entering your Owner code, the time-out for these displays are disabled. The displays will continue to scroll without timing out.



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