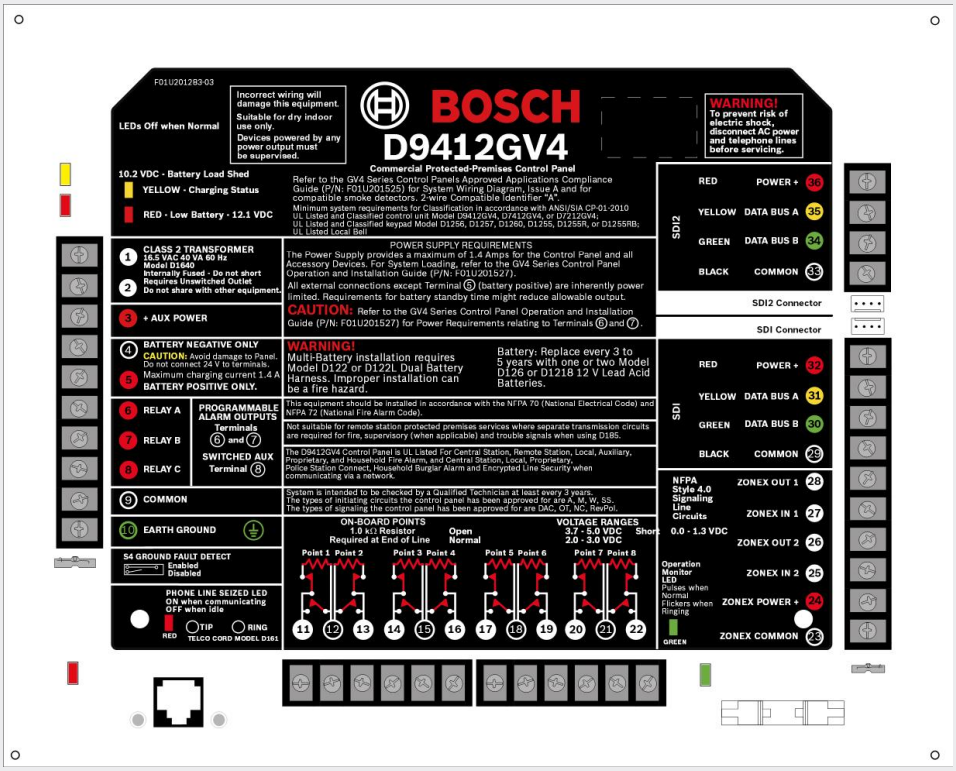



# Control Panel

## D9412GV4/D7412GV4/D7212GV4 v1.xx

BOSCH

**en** Release Notes

# Table of contents

# 1 Introduction

These *Release Notes* are for control panel firmware version v1.10.

## 1.1 About documentation

Supporting literature for v1.xx firmware.

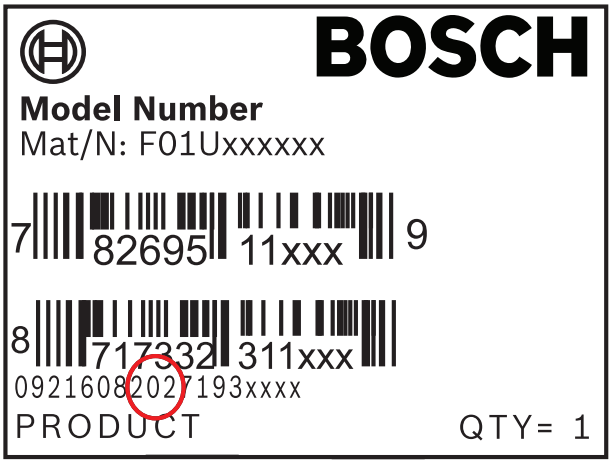
| Title | Part Number |
|---|---|
| *D9412GV4/D7412GV4/D7212GV4 Program Entry Guide* | F01U218312 |
| *D9412GV4/D7412GV4/D7212GV4 Program Record Sheet* | F01U214958 |
| *D9412GV4/D7412GV4/D7212GV4 Operation and Installation Guide* | F01U266054 |
| *D9412GV4/D7412GV4/D7212GV4 Approved Applications Compliance Guide* | F01U266055 |
| *D9412GV4/D7412GV4/D7212GV4 UL Installation Guide* | F01U266058 |



**Trademarks**
All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

### 1.1.1 Bosch Security Systems, Inc. product manufacturing dates

Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at http://www.boschsecurity.com/datecodes/.
The following image shows an example of a product label and highlights where to find the manufacturing date within the serial number.



# 2 Version 1.10

## 2.1 What's new

This section examines the new features of this firmware version.

### 2.1.1 cUL Compliance

GV4 is now cUL compliant for use in Canada:

- CAN/ULC S303 - Local Burglar Alarm Units and Systems
- CAN/ULC S304 - Standard for Signal Receiving enter and Premise Burglar Alarm
- ULC-ORD C1023 - Household Burglar Alarm System Units
- ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems

## 2.2 Corrections

This section examines the corrections made in this firmware version.

### 2.2.1 Master Arm – No Exit

- The **Master Arm** – **No Exit** feature has been modified to process Interior Follower and Interior Delay points the same way (when faulted at the end of the exit delay time).

### 2.2.2 3-digit point number reports

- Using the Modem IIIa$^2$ communicator format**: Alarm**, **Recent Closing** and **Alarm, Exit Error** reports have been modified to send 3-digit point number reports.

## 2.3 Known Issues

This section examines the known issues of this firmware version.

### 2.3.1 Point/User Flag

This parameter is no longer operational despite remaining available through RPS programming. Conversion to COMEX reporting is no longer supported.

### 2.3.2 Program Entry Guide Update

- *Section 3.10.5 Arming Features* of the *GV4 Series Program Entry Guide* (P/N: F01U218312) contains information for the A# Two Man Rule parameter that is incomplete. Use the following information in place of that found in the *Program Entry Guide*.

**A# Two Man Rule**

Default: No

Selection: Yes or No

Yes. Two different passcodes must be entered to disarm the area.

No. A single passcode can disarm the area.

The Two Man Rule feature is suitable for banks or other facilities that require a higher level of security to gain access to a vault or other protected area.

Use the parameter to configure an area so that two different passcodes are required to disarm the area when it is Master Armed. Both passcodes must be assigned to an Authority Level with Passcode Disarm authority in the same area.

The steps below show how to disarm an area that is Master Armed with the A# Two Man Rule set to Yes.

1. The first user enters his passcode.
2. The system displays a prompt for a second passcode and begins a ‘second passcode delay’ equal to the Exit Delay programmed for the area.
3. The second user enters their passcode. The second passcode must be different than the first passcode.

4. The area is disarmed.

If the first passcode is entered during entry delay and the second user does not enter their passcode before the delay expires an alarm event occurs.

If entry delay **did not** start before the first passcode was entered and the second user does not enter their passcode before the delay expires, the Two Man Rule resets. The first user must reenter their passcode.

If there is an active alarm (alarm is sounding) in the area, entering the first passcode silences the alarm but **does not disarm** the area. The system requests the second passcode. Entering the second passcode disarms the area.

**Additional Configuration Requirements:**

Users must be assigned to an Authority Level with **L## Passcode Disarm** authority in the same area.

Keypads assigned to an area with the **A# Two Man Rule** set to **Yes** must be configured for Area Wide Scope (**CC# Scope** set to **Area**).

When the **A# Two Man Rule** set to **Yes** no keypads in the system can be assigned to Panel Wide Scope (**CC# Scope** must not be set to **Panel Wide**).

When the **A# Two Man Rule** set to **Yes** no keypads in the system with Account Wide or Custom Scope (**CC# Scope** set to **Account** or **Custom**) can include an area with **A# Two Man Rule** set to **Yes** in their scope.

Set **A# Early Ambush** to **No** for areas with the **A# Two Man Rule** set to **Yes**.

**Notice!**

Failure to follow the additional configuration requirements shown above will result in unintended system behavior.

The D720 Keypad does not support the Two-Man Rule feature.

The Two-Man Rule feature is not allowed for use in SIA CP-01 compliant installations. Consult the local authority having jurisdiction (AHJ) for proper usage. Refer to your control panel's entry guide for programming information.

### 2.3.3 Sensor Reset Command (COMMAND 47)

– On the D1260 and D1260B Keypads, when the Sensor Reset command (COMMAND 47) is executed, Call for Service appears erroneously on the display for a brief time. This effect also occurs when the control panel reboots.

### 2.3.4 ANSI SIA CP-01

– Change the Service Passcode (User ID 0) factory default value when the ANSI SIA CP-01 required Passcode Length parameter is 4 or greater.

### 2.3.5 ITS-DX4020-G

– When using an ITS-DX4020-G as a GSM phone device, the central station phone number must have a dial pause (C) option as the first digit.

### 2.3.6 Single RPS Connection

– Only one connection to RPS can be made. RPS does not notify you if you are already in a connection.

### 2.3.7 Area Assigned

– When configuring a custom area scope for a keypad, always include the Area Assigned. Failure to do so results in inconsistent operation.

### 2.3.8 COMMAND 7 and COMMAND 9

- Bosch recommends that COMMAND 7 and COMMAND 9 be configured to not require a passcode. When an alarm is sounding, any passcode entry for any command will silence all alarms in all areas in which the user has authority.
- If a low-priority alarm is within its abort window and the alarm bell timer expires, the keypad annunciation will persist unexpectedly beyond the bell timeout. The keypad must be manually silenced with a valid passcode.

# 3 Version 1.00 firmware revision history

**Notable features**



## 3.1 Remote firmware update

The control panel includes the support of remote firmware updating using the RPS Firmware Update Wizard via:

– Local – Ethernet or USB
– Remote – Ethernet or Cellular

The control panel includes a programmable option for local keypad authorization. When the local authorization option is enabled via RPS, only a user with the Firmware Update Authority enabled can authorize the update.

**Preconditions**

The control panel must be running normally: AC power present; the battery at full charge; and all areas disarmed. These three conditions must be met for firmware updates to initiate.

## 3.2 Protocol

– GV4 Series control panels allow Automation software access to new GV4 features.

## 3.3 User authentication

**Dual authentication**

Dual authentication requires two forms of credentials in order for access to do passcode enter function.

## 3.4 Passcode Enter functions

**Arm/Disarm**

– The Arm/Disarm function changes all authorized areas when a user is authenticated.

**Cycle Relay**

– The Cycle Relay command momentarily activates a preconfigured output.

**Cycle Door (Door Access and Control)**

– The Cycle Door Command grants access to the authorized door.

**Auto Re-arm features**

– The Auto Re-arm function is intended to temporarily disarm the perimeter and then automatically re-arm.

## 3.5 Number of users

– GV4 Series control panels support a total of 1000 unique users, whereby “User 0” is the installer.

**Notice!**
If RPS is used to add, replace, or remove any keyfobs, no keyfob-specific events will be generated. Only the **Parameters Changed** event will be logged.

## 3.6 SDI2 support

– The GV4 series control panel support two independent busses on the main control panel.

## 3.7 B208 Octo-input module

The B208 Octo-input module is an 8 point expansion device that connects to the control panel through the SDI2 bus.

## 3.8 B308 Octo-output module

The B308 Octo-output Module is an 8 Output expansion device that connects to the control panel through the SDI2 bus.

## 3.9 B520 AUX power supply module

– The B520 is a fully supervised auxiliary power supply that connects to the control panel through the SDI2 bus.

## 3.10 B420 network interface module

– The Conettix B420 Ethernet Communication Module manages secure, two-way IP communications over Ethernet network.

**Notice!**
If DHCP is disabled, the IP address, subnet mask, and default gateway must be configured manually.

## 3.11 B820 Inovonics interface module

– The B820 Inovonics Interface Module is an SDI2 bus device that allows communication between the control panel and an Inovonics EchoStream Wireless transmitters.

**RF Repeaters**

– The GV4 Series control panel supports up to 8 RF repeater modules. Each module is individually powered and reports battery and AC status to the control panel.

## 3.12 Keypad programming

**Module encryption parameters (AES encryption key size)**

– Each B420 Ethernet Communications Module can independently and optionally support 128-bit AES Encryption for RPS and central station communication.

**AES encryption key**

– The ability to display, add, and modify the AES encryption key is available in both keypad programming and through RPS.

**Points**

– Point Index and Point Source assignments can be made or removed through Installer Keypad Tools.

**Inovonics interface module management**

– A keypad Tools Menu provides a means to enroll or replace wireless devices on premises. This menu also allows the installer to manually enter the RFID of wireless devices.

**Routing parameters**

– The GV4 Series control panel includes 16 routes to 4 network receivers and 4 phone routes.

**Notice!**
If a B420 Ethernet Communications Module used at SDI2 address 1 or SDI2 address 2 has been configured as an automation interface module, then that module cannot be used for central station nor RPS communication.

**Installer menu**

– Access a variety of keypad installer functions through the use of the Installer menu.
– The Installers Menu has the following options: View Log, Print Log, Display Revision, Service Walk Test, Default Text, View Service Bypass, Tools Menu and authorize Firmware Update.

**Tools menu description**

– Access keypad tool functions through the use of the Tools menu.

**Keypad programming**

– The keypad programming menu provides a means for limited programming on the control panel. Keypad programming can be enabled/disabled from RPS.

**RF points**

– The RF Points menu provides a means to Enroll, Replace, and Remove the RFID for wireless points.

**RF repeaters**

– The RF Points menu provides a means to Add, Replace, and Remove the RFID for RF repeater modules.

**RF diagnostics**

The RF Diagnostics menu provides a means to view the status of RF Point and RF Repeaters.

**Service bypass**

– Setting Service Bypass to YES disables a point.

**IP diagnostics**

– The IP Diagnostics menu provides a way to test each B420 Ethernet Communication Module for connection to the network.

## 3.13 Event log

– Events are stored in the Event Log when actions are performed on the control panel.

# 4 Upgrading to a GV4 Series Control Panel

**RPS Accounts Upgrade**

RPS version 5.14 or newer is required to upgrade an existing G Series or GV2 Series Control Panel installation to a GV4 Series Control Panel. Refer to the RPS help files for the specific control panel for additional information on control panel conversion. In the RPS help file, select:

**Panel Specific Information→Communicating with 9000 Series Panels→Upgrading a Panel Type.**

**Hardware Upgrade**

– The GV4 control panel's terminal blocks, SDI quick-connect terminal, and accessory connector are all fully compatible with all G series and GV2 series control panel peripherals.

**Notice!**

The D5200 Programmer is not compatible with the GV4 Series control panel.

– On-board Relays B (Terminal 7, labeled Alt Alarm) and C (Terminal 8, labeled SW Aux) are now installed in the factory. No supplemental installation or purchase is necessary to prepare these terminals for use.

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