



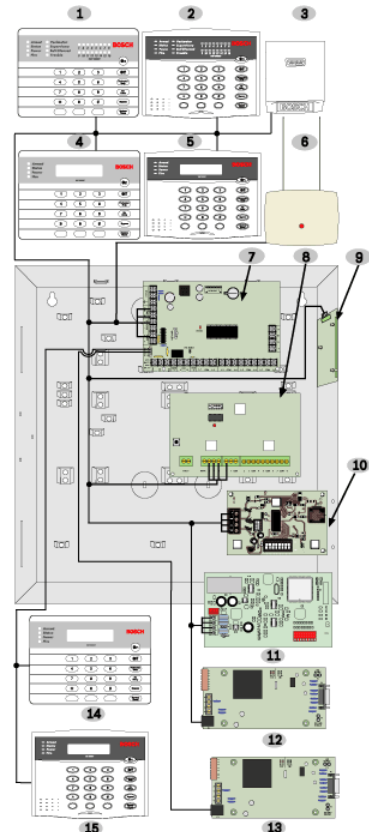
# DS7240V2 Control Panel



- ▶ Eight on-board zones
- ▶ Eight programmable Skeds
- ▶ RF compatibility
- ▶ Up to 32 users with optional key fob operation available
- ▶ Four programmable authority levels
- ▶ Two communications routing destinations
- ▶ 254 event log
- ▶ Remote-programmable with RPS
- ▶ Optional Door Access Control Module (DACM)
- ▶ Network communication option (LAN/WAN)

The DS7240V2 Control Panel has eight zones expandable to 40, four outputs expandable to 20, and four areas. It is suitable for commercial burglary and residential fire/ burglary applications.

## System Overview



1. DS7445i LED Keypad
2. DS7445V2 LED Keypad
3. Door Access Control Module (DACM)
4. DS7447E LCD Keypad
5. DS7447V2 LCD Keypad
6. RF3227E RF Receiver
7. DS7220V2 Control Panel
8. DX3010 Octo-output Expander
9. DX2010 Input Expander
10. DX3020 X-10 Interface Module
11. DX4020 Network Interface Module
12. DX4010i RS-232 Serial Interface Module
13. DX4010i RS-232 Serial Interface Module
14. DS7447E LCD Keypad
15. DS7447V2 LCD Keypad

## Functions

### Alarm Verification Option

Central station personnel are able to verify alarms with a two-way voice session with the premises and/or visually through an on-premises camera connected to the optional rvm4c Remote Video Module.

### Eight On-board Zones

The DS7240V2 Control Panel has eight on-board zones. It can have hard-wired expanded zones and wireless zones. Program any of these zones to follow one of 15 zone functions.

The DS7240V2 Control Panel also allows configuration using two resistors for each sensor loop. The control panel monitors two zones for each sensor loop, making 16 on-board zones available. Zone doubling is also available on hard-wired expanded zones.

When programming zones for entry or exit delay times, you can choose a longer delay time for zones located a longer distance from the keypad.

### Authority Levels and PINs

The system supports 32 Personal Identification Numbers (PIN). The PIN default is four digits, but can range between three and seven digits. Designate an unlimited number of master PINs. Use the master PINs to reprogram existing PINs. Program PINs using up to four different authority levels, which can restrict the PIN from bypassing, testing, and disarming the system.

### Locally or Remotely Programmable

The system is completely keypad programmable (DS7447E or DS7447V2 Keypad required). An Installer's Keypad

feature is also available that allows quick access to the programming menu.

Remote Programming Software (RPS) is a Windows®-based account management and panel programming and diagnostic utility. It is designed to remotely (or locally using the DX4010i Aux Data pins) set up and program the DS7240V2 Control Panels.

### LED and LCD Keypad Support

Keypad	Description
DS7445i LED Keypad DS7445V2 LED Keypad	Provide 16 operating LEDs, and eight system status LEDs that indicate conditions such as armed, fire alarm, and trouble.
DS7446KP LCD Keypad DS7447E LCD Keypad DS7447V2 LCD Keypad	Two-line displays allow custom zone and area descriptions up to 16 characters. The end user can adjust the sounder volume and backlight intensity using easy button commands.

LED and LCD keypads can be used in the same DS7240V2 Control Panel system.

### PK32

The DS7240V2 Control Panel has an optional PK32 Programming Key that can copy one control panel's programming to another control panel. This can be used as an installer's template. The installer could store a residential template in one PK32 and a commercial template in another PK32. The on-board LED illuminates when information is sent to or from the key, and blinks when functional diagnostics are performed on the key.

### Flexible Digital Communications

The DS7240V2 Control Panel works with most alarm receivers that support Contact ID and SIA 300 digital communicator formats and pager format. The pager format allows control panels to dial a digital pager service and leave a numeric message representing the account number, event number, area number, and zone or user number.

### Network Communication Option

Adding a DX4020 Network Interface Module provides bi-directional communications over an Ethernet network. The network can also be used for both remote programming sessions with RPS and central station (ARC) reporting.

### Event History Log

A 254-event history log keeps a record of open and close events, alarms, and troubles organized by time and date. View the log information using the DS7447E and DS7447V2 LCD Keypads or RPS. The log also tracks the area, zone (device), user, and communication information relevant to each event. All 254 events are in non-volatile memory.

### Scheduled Events (Skeds)

Skeds are programmed events that occur at a specific time of day and day of week. These events include Auto On, Auto Perimeter Only On, Auto Partial On, Auto Off and Sked Output Function. Users can use the Extend Auto On Time function to add an additional hour to the setting for Auto On, Auto Perimeter Only On and Auto Partial On. Depending on the assigned authority level, users can change a sked. Eight skeds are available.

### Fire Alarm Verification

The DS7240V2 Control Panel can automatically reset smoke detectors after an initial alarm. If a second alarm occurs within the verification window, an immediate fire alarm results. This reduces potential false alarms, while still providing fast response to an alarm.

### Door Access Control Modules (DACMs)

A DACM grants or restricts access through a door using a keypad, credential reader, Request-to-Exit (REX) input, or a door contact. Each DACM replaces one system keypad and supervises one door. The DACM can also function as a stand-alone device.

### Zones

The DS7240V2 accepts up to 40 zones in any combination of the available on-board zones, hard-wired expanded zones, or wireless zones.

### Areas

The DS7240V2 can be divided into four independently-configurable areas. Each area can have separate keypads and a separate reporting ID.

Area 1 can be programmed as a common area that follows the arming state of all the other areas. The common area arms only when all areas are armed. This allows for protection of shared areas such as foyers and entryways, while still maintaining separate areas.

### Outputs

The DS7240V2 has four on-board programmable outputs that may be expanded up to 20.

**PO 1:** terminals can be configured as an alarm power output. The default configuration for PO 1 makes it a dry contact, Normally-Open (NO) relay.

**PO 2:** can be used with Alarm + as a supervised siren driver. Connect an approved 4  $\Omega$  or 8  $\Omega$  speakers. Alternatively, PO 2 can sink up to 500 mA, 12 VDC.

**PO 3 and PO 4:** can be configured for Alarm Output. These outputs can sink 500 mA, 12 VDC each.

### Certifications and Approvals

The DS7240V2 Control Panel complies with the following certifications, approvals, and standards.

Country	Certification/Listing Number
Europe	CE
Sweden	SSF 1014

The DS7240V2 Control Panel is designed to comply with the following certifications, approvals, and standards.

Country	Certification/Listing Number
Europe	EN50131-1 grade 2

### Installation/Configuration Notes

#### Compatibility Information

Batteries	D126 12 V, 7 Ah Standby Battery D1218 12 V, 18 Ah Standby Battery D1240 12 V, 4 Ah Standby Battery
Keypads	DS7445i LED Keypad DS7445V2 LED Keypad DS7446KP LCD Keypad DS7447E LCD Keypad DS7447i Alpha Numeric Keypad DS7447V2 LCD Keypad
Fire Detectors	D132A Smoke Detector Reversing Relay  DS250 Photoelectric Smoke Detector DS250TH Photoelectric Smoke Detector with heat-sensing thermistor DS284 Photoelectric Smoke Detector DS284TH Photoelectric Smoke Detector with heat-sensing thermistor DS284THS Photoelectric Smoke Detector with heat-sensing thermistor and sounder
Wireless Products	RF280ETHS Wireless Photoelectric Smoke Detector with heat-sensing thermistor and sounder RF835E Wireless TriTech® Detector RF940E Wireless PIR Detector RF1100E RF Glass Break Detector RF3227E RF Receiver RF3332E Two-button Key Fob RF3334E Four-button Key Fob RF3401E RF Transmitter RF3405E RF Inertia Transmitter RF3501E RF Panic Pendant RF3503E RF Panic Button
Modules	DACM Door Access Control Module DX2010 Eight-input Expander DX3010 Octo-output Expander DX3011 Octo-output Expander Package

DX3012 Octo-output Expander Package  
 DX4010 RS-232 Serial Interface Module  
 DX4010i RS-232 Serial Interface Module  
 DX4020 Network Interface Module  
 RVM4C Remote Video Module

### Wiring Considerations

- Up to 305 m (1,000 ft) allowed between control panel external power supply and keypad or DACM when using 0.8 mm wire.
- Up to 610 m (2,000 ft) allowed between panel/external power supply and keypad or DACM when using 1.2 mm wire.
- No more than two keypads or DACMs (0.8 mm) or three keypads/DACMs (1.2 mm) are recommended on any 305 m (1,000 ft) run when powered from the panel.

### Parts Included

Each standard system includes:

Quantity	Component
1	DS7240V2 control board
1	Universal enclosure
1	Transformer (18 VAC, 50 VA)
1	Hardware/resistor pack

### Technical Specifications

#### Data Bus

Data Bus: 12 VDC nominal

#### Enclosure

Material: 1.0 mm, cold-rolled steel

Dimensions: 36.8 cm x 31.8 cm x 7.6 cm  
(14.5 in. x 12.5 in. x 3 in.)

#### Environmental Considerations

Relative Humidity: 5% to 85% at +30°C (+86°F) non-condensing

Temperature (Operating): 0°C to +49°C (+32°F to +120°F)

#### Keypads and Door Access Control Module (DACM)

Number supported: 8 maximum in any combination of keypads or DACMs

#### Power Outputs

Continuous Power: 1.2 A maximum

Alarm Power: 1.85 A maximum at 11.5 VDC to 12.4 VDC

#### Power Requirements

Primary Voltage Input: 18 VAC, 50 VA transformer

Secondary Voltage Input: Two 12 VDC, 7 Ah or 12 VDC, 18 Ah sealed lead-acid rechargeable batteries

Current Requirements: 100 mA

#### Telephone Interface

Telephone Interface: Terminal block

#### Trademarks

Windows® is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

### Ordering Information

DS7240V2-BEL Control Panel Dutch language version for Belgium.	DS7240V2-BEL
DS7240V2-BEF Control Panel French language version for Belgium.	DS7240V2-BEF
DS7240V2-CHI Control Panel Chinese language version.	DS7240V2-CHI
DS7240V2-FRA Control Panel French language version.	DS7240V2-FRA
DS7240V2-DE Control Panel German language version.	DS7240V2-DE
DS7240V2-IT Control Panel Italian language version.	DS7240V2-IT
DS7240V2-NL Control Panel Dutch language version.	DS7240V2-NL
DS7240V2-SPA Control Panel Spanish language version.	DS7240V2-SPA

**Ordering Information**

DS7240V2-SWE Control Panel Swedish language version.	DS7240V2-SWE
DS7240V2-UK Control Panel British English language version.	DS7240V2-UK

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