# Quick Start Guide
## B5512/B4512/B3512 Control Panel



**BOSCH**

---



Labels on control panel board:
- Comm. Module
- Ethernet Port
- USB Port
- Heartbeat LED
- Reset Button
- Outputs B(2), C(3)
- Tamper Input

Bottom labels:
- Transformer Earth Ground
- Battery
- Output A(1)
- Aux 12V
- SDI2 Bus
- Inputs 1, 2
- Inputs 3, 4
- Inputs 5, 6
- Inputs 7, 8

On board detail text:
OUTPUT A — Jumper Under Cover: AUX PWR, COM, DRY
OUTPUT A

ON-BOARD POINTS
Open 3.7 - 5.0 VDC
Normal 2.0 - 3.0 VDC
Short 0.0 - 1.3 VDC
1 kΩ End of Line Resistors

---

## Communication Devices

| Technology | Location | ISRG # | Reporting | Personal Notifications | Remote RPS Programming | Local RPS Programming | Remote Security App |
|---|---|---|---|---|---|---|---|
| Ethernet [3] | On-board | 7.5 | ● | ● | ● | ●[1] | ● |
| Cellular | B44x Plug-in | 8.2 | ● | ● | ● | ● | ● |
| Telephone | B430 Plug-in | 7 | ● | ○ | ● | ○ | ○ |
| USB | On-board | 3.3.8 | ○ | ○ | ○ | ●[2] | ○ |

[1] = PC direct, connect using AutoIP (Wi-Fi off, wait 2 min)
[2] = PC direct, connect using Male A to Male A USB (B99)
[3] = 'E' panel variants do not include on-board Ethernet

---

## Control Panel Mounting Locations
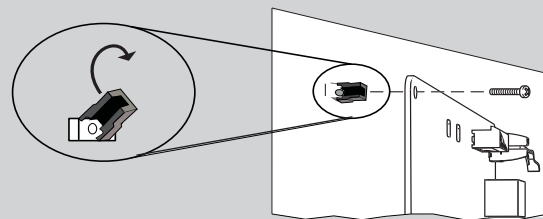
**B10 Enclosure**
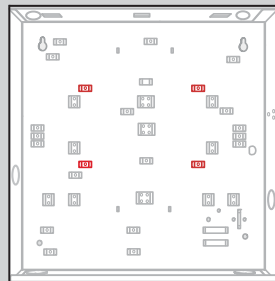


**B11 Enclosure**



### Attaching Mounting Clips



Need more help?
For detailed instructions, refer to the control panels *Installation and System Reference Guide* (ISRG) chapter number (ISRG #5.2 ) included on the CD provided with the control panel.

---

## SDI2 Device Type Options

| Device Type | | Part # | Description | ISRG # | Maximum # of Devices | | | Address | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | B5512 | B4512 | B3512 | | |
| Keypad | | B915 | 2-line Basic | 9.1.1 | | | | | Similar device types must use different addresses. |
| | | B920 | 2-line, LCD | 9.1.2 | | | | | |
| | | B921C/W | 2-line, Capacitive | 9.1.3 | 8* | 8* | 4* | 01...08 | Different device types may use the same address. |
| | | B930 | 5-line, ATM LCD | 9.1.4 | | | | | |
| | | B942 | Touch Screen | 9.1.5 | | | | | |
| I/O Expander | | B208 | 8-input | 13.1 | 4 | 2 | 0 | 01...08 | * Maximum number of keypads and RF receivers in a single system. |
| | | B308 | 8-output | 11.1 | 5 | 3 | 0 | | |
| RF Receiver | | B810 | Bosch RADION | 14.1 | 1* | 1* | 1* | 1 | |
| | | B820 | Inovonics | 14.2 | | | | | |
| Power Supply | | B520 | 12V DC, 2A | 6.3 | 4 | 2 | 2 | 01...04 | |
| Remote Cellular | | B450 | B44x Plug-in Interface | 8.4 | 1 | 1 | 1 | 1 | |

SDI2 Specifications
- Unshielded, 4 conductor, 22-12 gauge cable
- Maximum cable length 1000' single run, 7500' system total
- Allows a combination of home run, daisy chain and T-tapping wiring configurations

---

## On-board Inputs and Outputs

| Terminal | Description | Specification |
|---|---|---|
| 18VAC | Transformer | 18VAC 22VA Plug-in |
| ⏚ | Earth Ground | Cold water pipe, or similar |
| + BAT - | Battery | 12VDC 7Ah |
| NO C NC | Output A(1) | Switched AUX, COM, or Dry |
| COM AUX | Aux Power | 12VDC, 800mA |
| R Y G B | SDI2 Bus | Keypads, SDI2 devices, terminal and Quickconnect in parallel |
| 1 COM 2 | Alarm Inputs | 1k Ω EOL |
| TMPR | Tamper | Optional tamper switch |
| B C | Outputs B(2), C(3) | Open collector, 50mA, active low |
| RESET | Reset Switch | Hold 5 seconds to enter or exit service mode |
| ♥ | Heartbeat | Slow=normal, Rapid=service mode |
| MODULE 1 | Plug-in | Communication module options |

# RPS Programming

## Remote Programming Software (RPS)
- Windows based account management and control panel programming application
- Each control panel program is represented as an RPS database record

## RPS Features
- Full control panel configuration; local and remote
- Control panel firmware updates; local and remote
- Control panel history event management and reports
- Enhanced remote panel diagnostics

## RPS Ordering Information
- D5500CU: RPS Account management and control panel programming software on CD-ROM
- D5370-USB: USB Security Block (Dongle) Security accessory required for RPS to control panel communications
- D5500C-USB: RPS software and required USB Security Block (Dongle) kit



USB Security Block

RPS Software Download: http://tiny.cc/boschrps

Note: RPS version 5.17 or higher is required for connection to B Series control panels.

## RPS Installation and Initial Login
- Install RPS on a Windows computer
- Login to RPS using the following credentials
  - User Name: admin
  - Password: default
  - Change the password after initial login

## RPS Help
Press F1 for context sensitive help from any window or programming field within the RPS application.
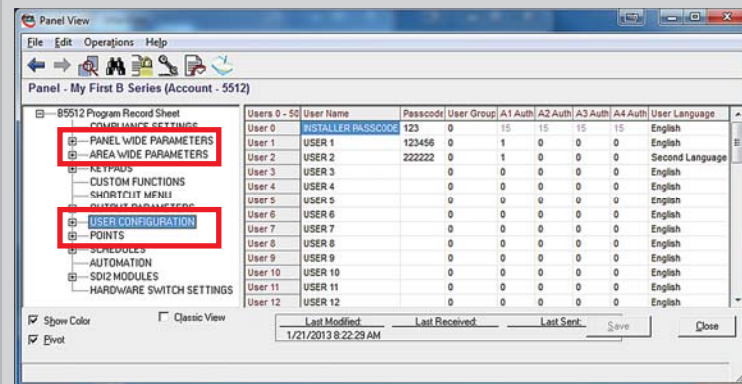
---

## Creating B Series Accounts
1. Panel List > New.
2. Select a B Series control panel.
3. Enter the account information in the fields.
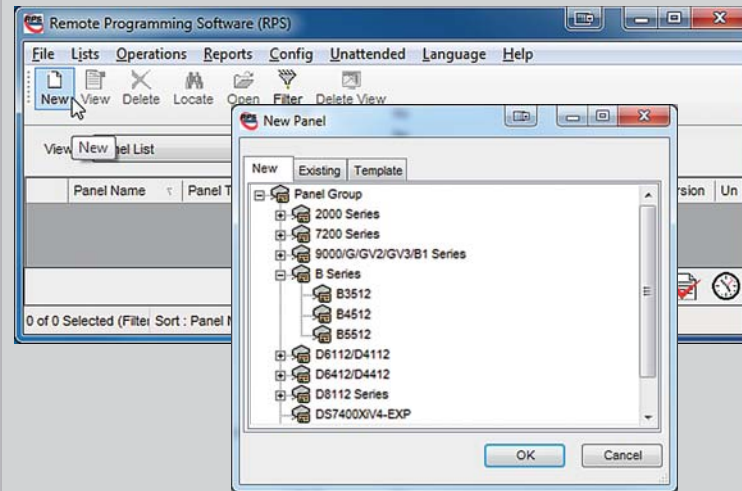


## B Series Control Panel Configuration
1. To open, double-click the B Series account.
2. Complete the required basic control panel parameters.



## Connecting to B Series Control Panels
1. Plug in the Security Block.
2. Click the Connect button.
3. Select the connection method.
4. Connect to the control panel.
5. Send All programming parameters to the control panel.



---
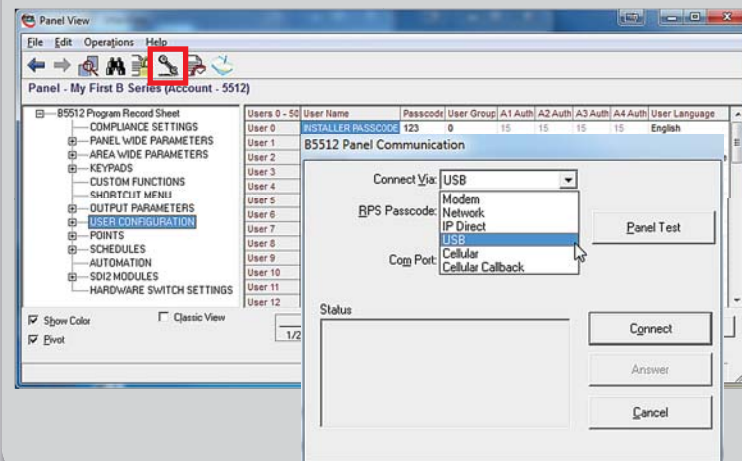
# Keypad Programming

B930 ATM Style Alphanumeric Keypad Features:
- Bright five-line display
- Four ATM style soft-keys on both sides of the display



B920 Series Two-line Alphanumeric Keypad Features:
- Bright two line display
- Eight dedicated function keys



## B Series Keypad Functions
- System operation (User)
- System diagnostics (Installer)
- Basic Panel Programming (Installer)

## Installer Mode
- Installer Mode provides basic programming and diagnostics at system keypads.
- Installer Mode tools include:
  - Programming
  - Wireless
  - Network
  - Service Bypass
  - Versions
  - Cellular
- Enter Installer Mode by entering the default installer passcode: [1][2][3][ENTER].
- Exit Installer Mode by pressing [ESC].

---

## Service Mode
- Service Mode differs from Installer Mode by:
  - Stopping all reporting
  - Enabling a service keypad (address 0,0)
  - Rebooting control panel when mode is exited

- Entering Service Mode:
  1. Hold the control panel's RESET button for 5 seconds (Heartbeat LED pulses rapidly).
  2. Press [1][2][3][ENTER].

- Exiting Service Mode:
  Hold the control panel's RESET button for 5 seconds (Heartbeat LED stops and the control panel reboots).

## Keypad Programming
Programming needed to make a system operational includes reporting and point programming.

## Point Programming Process
1. Enter the Points Menu.
2. Select a Point Number.
3. Set the Point Source.
4. Assign a Point Index.

Point Source: Identifies the source (device type) of the point being programmed.

If the source selected is Wireless an RFID option is presented. Wireless RFID numbers are found on the wireless device being added.

Point Index: Device (point) behavior characteristics assigned to each point in the system.

Twenty Point Indexes are provided including the following common device functions:
4 – Smoke Detectors
7 – Perimeter Door/Window, no Entry
8 – Perimeter Entry/Exit Door
13 – Interior Motion Detector

## Important Notes:
- Change the default ([1][2][3]) installer passcode
- Test system via Main Menu > Actions > Test menu
- Central Station receiver update is required when using Conettix IP and Modem4 reporting format

Need help? Press the keypad HELP key.