tyco

HS2TCHPRO/HS2TCHPROBLK

Installation Instructions

Warning: Please refer to the System Installation Manual for information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. These instructions shall be used in conjunction with the system Installation Manual of the Control Panel with which this equipment is intended to be used.

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Johnson Controls

Contents

Safety Instructions

Read the safety information before you install the equipment.

Important: This equipment must be installed by a skilled person only. A skilled person is an installer with appropriate technical training. The installer must be aware of potential hazards during installation and measures available to minimize risks to the installer and other people.

- Before you install this equipment, disconnect all power sources (for example mains, battery, and telephone line) connected to the alarm panel.
- Install the equipment indoors in a non-hazardous environment where the following conditions are met:
  - Pollution degree - Maximum 2
  - Over voltages - Category II
- Internal wiring must be routed to prevent strain on wire and terminal connections, loose terminal connections, and damage to conductor insulation.
- Instruct the user that there are no user serviceable parts in this equipment. All equipment must be serviced by a skilled person.

Installation Instructions

The HS2TCHPRO/HS2TCHPROBLK keypad can be used on security systems with up to 248 zones. These keypads are compatible with the PowerSeries Pro panel models HS3128, HS3032, HS3248.

Specifications

- Temperature range: UL/ULC: 0°C to +49°C (32°F to 120°F); EN: -10°C to +55°C (14°F to 131°F)
- Weight: 405 g
- Humidity (MAX): 93% R.H. non-condensing
- Plastic enclosure protection degree: IP30, IK04 (touchscreen excluded)
- Voltage rating: 11.3 VDC to 12.5 VDC nominal
- Corbus low voltage: 9 VDC
- Connects to control panel via 4-wire Corbus
- Corbus distance: 101 m (332 ft. max.). Corbus distance in Extra Power mode: 54 m (177 ft)
- Up to 32 keypads per system
- HS2TCHPRO/HS2TCHPROBLK current draw (at 12 VDC): 100 mA standby (screen off); 160 mA activated or alarm (Regular. power mode); 230 mA activated or alarm (Extra Power mode).

Note: This does not include 50 mA (max) using PGM output.

- Wall mount tamper
- Four programmable function keys
- Ready (Green LED), Armed (Red LED), Trouble (Yellow LED), AC (Green LED), HOME (White LED)
- Keypad size: 191 mm x 126 mm x 20.35 mm
- Display area size: 155 mm x 86 mm
- SD card slot: holds any standard Secure Digital (SD) card* (32 mm x 24 mm x 2.1 mm). *If necessary, the SD card can be formatted to file system FAT16 or 32 using a PC. The maximum size SD card supported is 32 GB.
- Wiring: standard four-wire connection
- View angle: horizontal viewing angle: 70° left, 70° right
- Vertical view angle: 70° top, 50° bottom
- Brightness: 280 cd/m^2

Note: On the HS3248 panel, the maximum number of partitions is 32 and the maximum number of keypads is 32. For more information on the system configurations, refer to the Reference Manual.

Unpacking

The keypad package includes the following parts:

- One keypad
- Five mounting screws and five anchors for wall-mounting
- One tamper switch (required for UL commercial burglary listed installations)
- Installation instructions and User manual

Mounting

Mount the keypad near designated points of entry and exit. Once a dry and secure location is selected, do the following:

1. If there is an SD card in the keypad, remove the SD card before opening the touchscreen. See Figure 1.

Warning: Do not disassemble the touchscreen without removing the SD card first.

2. Remove screw at the bottom of the keypad.
3. Insert screwdriver into slots and pry up to remove.

Figure 1 - Removing the Backplate
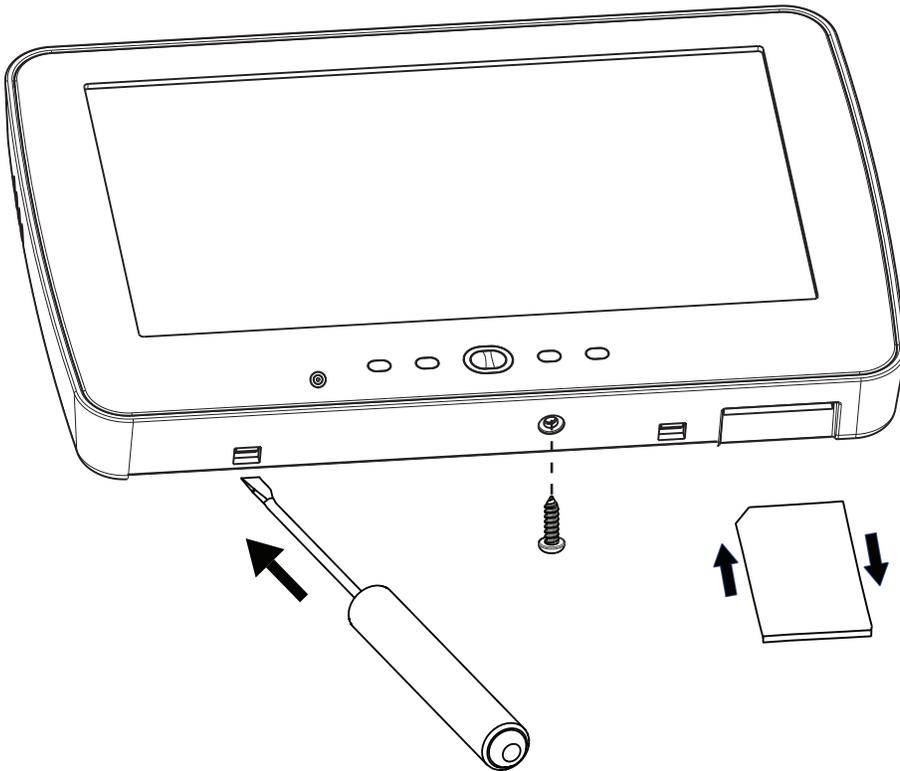
4. Secure keypad backplate to the wall using mounting holes, see Figure 2. Use all 4 screws provided unless mounting on a single gang box. Use the plastic anchors if the unit is to be mounted on drywall. If using the keypad tamper, secure the tamper plate to the wall with a screw.

Figure 2 - Mounting the Backplate
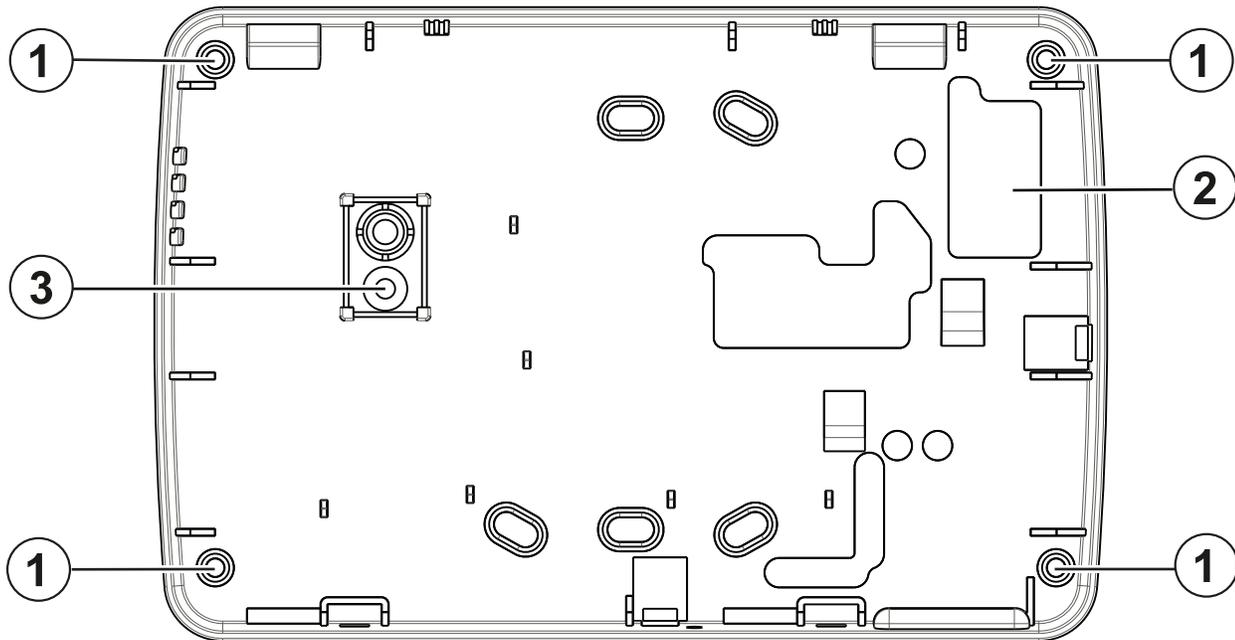
Callout	Description
1	Mounting holes
2	Wiring slot
3	Hole for tamper screw

Note: For ULC fire installations, the keypad must be mounted on top of an electrical box and used with conduit.

5. Run wire through wiring slot. Connect Corbus wiring to the keypad. See the Wiring section.
6. Place keypad into backplate, ensuring that the wire is pushed back into the wall as much as possible. Route the wire inside the keypad ensuring high components are avoided. Snap the front assembly closed, ensuring it fits flush with the backplate.

If any tension is found between the front keypad assembly and wiring, open the keypad, re-route the wire and close again. Repeat these steps until the keypad is closed properly.

Wiring

1. Before wiring the unit, ensure that all power (AC transformer, telecommunications network, and battery) is disconnected from the control panel.
2. Connect the four corbus wires from the control panel (green, yellow, black and red) to the keypad terminals.
3. If the P/Z terminal is programmed as an input, a device such as a door contact may be connected to the keypad. This eliminates the need to run wires back to the control panel for the device. To connect the zone, run one wire from the device to the 'P/Z' terminal and the other wire from the device to the B (black) terminal. For powered devices, run the red wire to the R (positive) terminal and the black wire to the B (negative) terminal.

4. If the 'P/Z' terminal is programmed as an output, a small relay (such as DSC model RM-1 or RM-2), buzzer or other DC operated device may be connected between the positive supply voltage and the 'P/Z' terminal (max.load is 50mA).

   Note: P/Z terminal is not to be used for fire applications but can be used for low risk ULC commercial burglary applications.

Figure 3 - Wiring
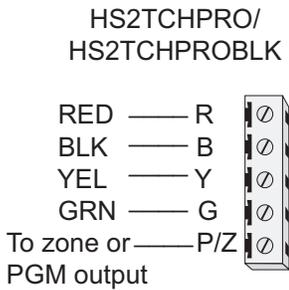
Basic Setup

This section describes how to configure the keypad, including enrollment, proximity tag setup, function key assignment and label programming.

Setting the Keypad Language

Enter [000][000] then the two-digit language number.

Languages

01 = English (default)	08 = Czech	15 = Greek
02 - Spanish	09 = Finnish	16 = Turkish
03 - Portuguese	10 = German	18 = Croatian
04 - French	11 = Swedish	19 = Hungarian
05 = Italian	12 = Norwegian	20 = Romanian
06 = Dutch	13 - Danish	21 = Russian
07 = Polish	14 = Hebrew	

Enrolling the Keypad

Keypads can be enrolled automatically or manually. In either case, the serial number of the device is used as an identifier.

Note: If no keypad is enrolled on the system, the touchscreen displays the following message when powered up: Press the Enroll button. Once the touchscreen is enrolled, use it to enroll other keypads and modules. The following enrollment methods are available:

[902][000] Auto Enroll

When this mode is selected, the total number of keypads currently enrolled is displayed.

1. Enter [902][000] to begin auto-enrollment of new keypads. Keypads are assigned to the next available slot.

[902][001] Manual Enroll

1. Enter [902][001] or use the [<][>] keys and press [*].
2. When prompted, enter the serial number of the keypad found on the back of the keypad.
3. Once enrolled, the keypad model, serial number and slot assignment are displayed. The slot assignment can be changed using the [<][>] keys.
4. To cancel the enrollment of a module, press [#].

[902][101] Unenroll Keypads

1. Enter [902][101] or use the [<][>] keys and press [*].
2. Use the [<][>] keys to scroll to the specific keypad to delete.
3. Press [*] to select the keypad and, when prompted, press [*] again to delete it.

Keypad Display Symbols

✔	Ready Light (green) – If the Ready light is on, the system is ready for arming.
🔒	Armed Light (red) – If the Armed light is on, the system has been armed successfully.
⚠	System Trouble – Indicates that a system trouble has been detected.
∿	AC – Indicates that AC is present at the main panel.

Proximity (Prox) Tags Support

A Prox tag can be used in place of an access code to perform functions on the system. Present the tag to the tag reader ◎ .

Assign Proximity Tags

Using the keypad:

1. Press [*][5] Master/Supervisor Code].
2. Enter a 2-digit user code.
3. Press 2.
4. Pass the enrolled tag near the tag reader.

Delete Proximity Tags

To delete a proximity tag:

1. Select Options, Access Codes [enter Master code].
2. Select a user to delete.
3. Select Prox Tag Prog then delete.

Function Key Assignment

The HS2TCHPRO/HS2TCHPROBLK has 7 buttons on the Home screen, four of them programmable by the installer. Function key 2 must always be set to "Away Armed."

To program function keys 1,3,4,5:

1. On the keypad, press [*][8][Installer Code].
2. Enter [861]-[892] to program keypads 1-32 respectively.
3. Enter [001-[005] for function keys 1-5 or use the [<][>] keys and press [*].
4. Enter a 2-digit number to assign a function key operation - [00]-[68].
   See Available Function Key Options below.
5. Repeat from step 3 until function keys 1, 3, 4, 5 are programmed.

Function Key	Function	Option
1	Stay Arm	03
2	Away Arm (Do not change)	04
3	Alarm Memory	40
4	Trouble Display	39
5	User Functions	35

To program function key 6:

1. Press Options, Installer Menu [Installer Code], Keypad Programming then Home Functions.
2. The default for the function key 6 Home Page display is Keypad Mode. To display the Photo button on the Home page, press Photos.

Available Function Key Options

The following table describes the available function key options:

[00] Null	[02] Instant Stay Arm	[03] Stay Arm
[04] Away Arm	[05] No-entry Arm	[06] Chime ON/OFF
[07] System Test	[09] Night Arm	[12] Global Stay Arm
[13] Global Away Arm	[14] Global Disarming	[16] Quick Exit
[17] Arm Interior	[21] Command Output 1	[22] Command Output 2
[23] Command Output 3	[24] Command Output 4	[29] Bypass Group Recall
[31] Local PGM Activate	[32] Bypass Mode	[33] Bypass Recall
[34] User Programming	[35] User Functions	[37] Time/ Date Program
[39] Trouble Display	[40] Alarm Memory	[61] - [92] Partition Select 1 - 32

Programming Labels

1. From the HS2TCHPRO/HS2TCHPROBLK keypad, press Options, press Installer Menu [Installer Code], then press Label Programming.
2. From the Label screen, select the item you want to label (e.g., zones, partitions, etc.).

3. Enter the label name for the selected item.
4. Press Save when complete.

Optional Settings

The following settings are available through the Options menu.

Enable/Disable Fire, Medical, Panic Buttons

1. Press Options, Installer Menu [Installer Code], Keypad Programming, then Options.
2. Enable/disable the desired Fire, Medical and Panic buttons.

Extra Power Option

The Extra Power option will increase the brightness of the display. To enable the option:

1. Press Options, Installer Menu [Installer Code], Keypad Programming, then Options.
2. Enable or disable the extra power option.

Note: Enabling the Extra Power option will put the keypad into a higher current mode and the keypad will draw 300 mA. In Extra Power mode, reduce the maximum wire length from 101 m (332 ft.) to 54 m (177 ft.)

Change the Background Image

1. Press Options, Installer Menu [Installer Code], Keypad Programming, then Background Image.
2. Select an image to use from the SD card.
3. To exit, press the Back or the Home button.

Dark Text Enable/Disable

1. Press Options, Installer Menu [Installer Code], Keypad Programming, then Options.
2. Select the desired text color by enabling or disabling Dark Text. (This will make the text white).

Note: This feature affects only the text on the Classic (square) button home page.

Performing a firmware upgrade

Note: Use downloading software (DLS) to upgrade the keypad's main ST software.

1. Insert an SD card in the HS2TCHPRO/HS2TCHPROBLK with the new firmware.
2. Press Options, Installer Menu [Installer Code], Keypad Programming, then Firmware Upgrade.
3. Select OK to perform a firmware upgrade.

Keypad Programming

To enter keypad programming:

1. Press Options then Keypad Mode. The virtual keypad is displayed.
2. Press [*][8][Installer Code].
3. Enter one of the following keypad programming sections:
   - [860] Keypad Slot Number. This section is for display only.
   - [861]-[892] to program keypads 1-32 respectively.

Once a keypad is selected, the following programming options are available:

[000] Keypad Partition Assignment

Valid entries are 00-32. |___|___|

[011] Keypad Input/Output Programming

Zone or PGM Number   Default 000 |___|___|___|

[012] Local PGM Output Pulse Activation Time

|___|___| Minutes (00-99) |___|___| Seconds (00-99)

[021] First Keypad Options

Default	Value	Option	ON	Off
OFF	|__|	1	Fire Key Enabled	Fire Key Disabled
OFF	|__|	2	Medical Key Enabled	Medical Key Disabled
OFF	|__|	3	Panic Key Enabled	Panic Key Disabled
ON	|__|	4	Display Access Code When Programming	Display Xs When Programming Access Codes

Note: For EN50131-1/EN50131-3 compliant systems, section [021], options 1 and 2 must be off..

[022] Second Keypad Options

Default	Value	Option	ON	Off
ON	|__|	1	Local Clock Display ON	Local Clock Display OFF
OFF	|__|	2	Local Clock Displays 24-hr	Clock Displays AM/PM
ON	|__|	3	Auto Alarm Mem Scroll ON	Auto Alarm Mem Scroll OFF
ON	|__|	4	For Future Use	For Future Use
OFF	|__|	5	Power LED Enabled	Power LED Disabled
ON	|__|	6	Power LED - AC Present ON	Power LED - AC Present OFF
ON	|__|	7	Alarms Displayed While Armed	Alarms Not Displayed While Armed
OFF	|__|	8	Auto-Scroll Open Zones ON	Auto-Scroll Open Zones OFF

Note: For UL/ULC installations, bit 5 (Power LED) and bit 6 (Power LED Indicates AC Present) shall be ON.

[023] Third Keypad Options

Default	Value	Option	ON	Off
OFF	|__|	1	Armed LED Power Save	Armed LED Off in Sleep Mode
ON	|__|	2	Keypad Status Shows Stay Arm	Keypad Status Shows Stay/Away Arm
OFF	|__|	3	5th Terminal Keypad PGM Output	5th Terminal is Keypad Zone Input
ON	|__|	4	Prox tag will arm/disarm	Prox tag does not arm/disarm
OFF	|__|	7	Local Display of Temperature	No Local Display of Temperature
OFF	|__|	8	Low Temperature Warning Enabled	Low Temperature Warning Disabled

[030] Download LCD Messages

|__|__|__|__|__|__|__|__|__|__|__|__|__| __|
|__|__|__|__|__|__|__|__|__|__|__|__|__| __|

[031] Download LCD Message Duration

Default: 000 |___|___|___|

(Valid entries are 000-255, 000=Unlimited Msg Display) This number represents the number of times the downloaded message must be cleared before it is permanently removed. This message can be cleared by pressing any key.

[041] Indoor Temperature Zone Assignment

Default: 000 |___|___|___| (Valid entries are 000-248)

[042] Outdoor Temperature Zone Assignment

Default: 000 |___|___|___| (Valid entries are 000-248)

[101] - [348] Door Chime for Zones 1 - 248

The keypad can be programmed to make up to four different chime sounds for individual zones (e.g., for Zone 1, enter section [101], for Zone 2 enter section [102]).

Default: 01 |___|___|

Valid Entries

01 6 Beeps

02 Bing-Bing tone

03 Ding-Dong tone

04 Alarm tone (4 second duration)

[991] Reset Keypad Programming to Factory Defaults

1. Press [*][8][Installer Code].
2. Enter [991].
3. Use the [<][>] keys to scroll to the applicable keypad.
4. Press [*] to select the keypad.
5. Re-enter [Installer Code].
6. Press [*] to reset the selected keypad to factory defaults.

Approvals

FCC Compliance Statement

Caution: Changes or modifications not expressly approved by DSC could void your authority to use this equipment.
This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4.

Industry Canada Compliance Statement

CAN ICES-3(b)/NMB-3(b)

Simplified Declaration of Conformity

Hereby, Tyco Safety Products Canada Ltd. delares that the radio equipment type in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
HS2TCHPRO(BLK): http://dsc.com/1903007

EN50131-1 Grade 3/Class II

The Model HS2TCHPRO/HS2TCHPROBLK Keypad has been certified by Telefication according to EN50131-1:2006 + A1:2009 + A2:2017, EN50131-3:2009 for Grade 3, Class II.

Note: For EN50131 compliant installations the following functions (initiated from the keypad emergency buttons) have to be disabled:

- Fire Alarm function
- Auxiliary (Medical) Alarm function
- Panic Alarm function

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Digital Security Controls (DSC) warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfilment of any breach of such warranty, DSC shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment. The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Digital Security Controls. Digital Security Controls neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. In no event shall Digital Security Controls be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

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