

HZ2-KPCN

Horizon® 2 Keypad with Cresnet® Communications



Shown with Custom Engraving on a Style 1 Button Assembly, Faceplate included

- 1-gang EU style electrical box or 1- to 4-gang U.S. wall box installation
- Horizon® 2 faceplate included (1-gang model, [HZ2-FP-G series](#))
- Gangable up to four across using Crestron® Horizon® device compatible multi-gang faceplates ([HZ2-FP-G series](#))
- Preinstalled 5 single button assembly (Style 1) with Default Engraving or can be configured with six different button assemblies with Custom Engraving
- Multicolor RGB LEDs provide backlighting for engraved buttons - a different color can be set for each button, including white
- White LED backlighting is available and can be set between 2000K and 8000K
- Replacement button assemblies available in six styles to accommodate changes in device function or updated engravings
- Blank button assemblies can be engraved by a third-party
- Ambient light sensor for auto-dimming day and night backlight modes
- Fully programmable via a Crestron control system
- Crestron Home® OS compatible
- Dual Cresnet® ports for easy daisy-chaining
- Two control input ports for external sensors
- Available in white, almond, and black

The [HZ2-KPCN](#) is a Horizon® 2 keypad that provides Cresnet® network control of lighting, shading, audio, and other amenities throughout a home. Its design matches the entire line of Horizon dimmers, switches, and keypads, making it a great addition to new or retrofit installations.

The HZ2-KPCN is available with default engraving on a five pushbutton button assembly (Style 1) or custom engraving on any style button assembly.

- Default engraving on a five pushbutton button assembly (Style 1) is provided with the HZ2-KPCN-A, HZ2-KPCN-W, and HZ2-KPCN-B. The default engraving includes a simple dot to provide feedback and indicate where the button can be pressed.



- Custom engraving on any style button assembly is provided with the HZ2-KPCN-A ENGRAVED, HZ2-KPCN-W ENGRAVED, and HZ2-KPCN-B ENGRAVED. The custom engraved button assembly is installed prior to shipment and replaces the default button assembly with default engraving.



Integrated Keypad

Supporting up to five buttons in six available button configurations, the HZ2-KPCN is configurable for a variety of applications. Because the device is attached to the Crestron® network, it can function as a keypad to trigger remote actions.

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Button Engraving

Custom laser-etched engraving is used to identify the functionality of each button on the button assembly. When a custom engraved model is ordered, the engraved button assembly is installed on the device before it is shipped. Create engraving files using Impress, the Crestron Home Setup app, the Crestron Home Online Configurator, or D3Pro. If necessary, custom engraving can be changed up until the order is processed by emailing orders@crestron.com with the engraving file.

If the engraving or button assembly has not been finalized before an order is placed, default engravings can be replaced with custom engravings by sending an engraving file to orders@crestron.com before the order ships. If the updated engraving order maintains the same product types and quantities as the original order, it will be processed in the order that it was originally received.

To order replacement engravings, refer to the [HZ2-BTNS ENGRAVED](#) button assembly product page.

Button assemblies without engravings (BLANK models) are available separately and can be used as-is or custom engraved by a third-party engraver.

NOTE: Devices ordered with custom engraving (ENGRAVED models) are provided with the button assembly indicated on the engraving order. The button assembly is installed prior to shipment and replaces the default button assembly with default engraving.

Multicolor Backlit Button Engraving

The engraved buttons are illuminated using the device's RGB LED backlights. Each button can be assigned custom color backlighting. The LED backlight provides feedback by changing the intensity, changing the color, or flashing to show that an action is being performed.

Local color theme sets the colors for all buttons on the device. In addition to the local color theme, each button can be assigned an alternate color theme. Thirteen local color themes are available that include Tunable White (default is Warm White), Neutral White, Cool White, and a variety of common colors. The local color theme and alternate color themes can be changed programmatically.

Field-Replaceable Button Assemblies

The field-replaceable button assemblies allow for changes in device function or to allow the customer to use the system before finalizing the engravings. The button assembly can be replaced with any of the six [HZ2-BTNS](#) button assembly configurations and are available with custom engraving (ENGRAVED models) or no engraving (BLANK models).

The HZ2-BTNS series button assemblies and HZ2-KPCN ENGRAVED devices are available in the following styles:

- **HZ2-BTNS-1 (Style 1):** 5 single buttons



- **HZ2-BTNS-2 (Style 2):** 4 single buttons and 1 split rocker button; Split rocker button is located in the lowest button position



- **HZ2-BTNS-3 (Style 3):** 4 single buttons and 1 split rocker button; Split rocker button is located in the second lowest button position



- **HZ2-BTNS-4 (Style 4):** 3 single buttons and 2 split rocker buttons; Split rocker buttons are located in the two lowest button positions



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- **HZ2-BTNS-5 (Style 5):** 1 medium rocker button and 2 single buttons;
Single buttons are located in the two lowest button positions



- **HZ2-BTNS-6 (Style 6):** 1 large rocker button



Built-In Control Ports

Two digital/analog input ports are included on keypad to provide a local interface for Crestron occupancy sensors, daylight sensors, and other devices that provide a contact closure, DC logic, or 0-10 VDC. Using the control ports, it's possible to add monitoring of room occupancy, ambient light level, door closures, and other conditions without additional wiring.

Standard Wall Mount

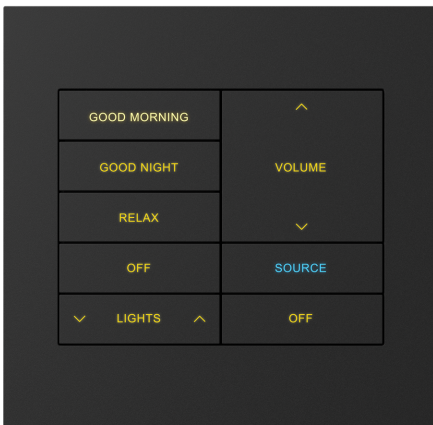
Horizon keypads are designed for installation in a standard electrical wall box, making them perfect for installation in a multi-gang box alongside other Horizon devices.

Cresnet® Wired Communications

The keypad communicates with a Crestron control system via Cresnet, a 4-wire network bus that provides bidirectional data communication and 24VDC power to each keypad in the system. To simplify wiring in a multigang arrangement, the keypad includes dual parallel Cresnet ports for daisy-chaining.

Multigang Expansion with Horizon 2 Faceplates

Install up to four Horizon® 2 devices side-by-side in a US multigang electrical box with a compatible [HZ2-FP-G](#) series faceplate. When multiple devices are installed in a 2-, 3-, or 4-gang faceplate, the buttons on the devices are aligned to form one continuous control surface.



Ambient Light Sensor

To ensure optimal visibility under varying lighting conditions, the button backlighting and indicator intensity adjusts automatically according to the amount of ambient light in the room.

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Specifications

Power Requirements

Cresnet Power Usage 2 W (83 mA @ 24VDC)

Controls

Pushbutton (9) Pushbuttons, located under the button assembly; Pushbuttons are actuated by the button assembly that is installed

Button Assembly (1) Button assembly included; Compatible with Style 1–6 button assemblies

Setup (1) Pushbutton; Front of the faceplate must be removed to access the pushbutton; Can be used to set the local LED backlight color theme or calibrate the ambient light sensor

LED Indicator and Light Sensor

LED Feedback (5) RGB LED backlights; Supports one local color theme for all LEDs; Supports one alternate color theme for each backlit position

Light Sensor (1) Photosensor with adjustable sensitivity; Detects the ambient room light level to activate day or night mode and autodimming the backlight

NOTE: Light sensor performance may be affected by obstructions placed below the keypad.

Communications

Cresnet Cresnet secondary mode

Connections

INPUT (12 G) (1) 3-pin 3.5 mm detachable terminal block; (2) digital/analog input ports, (1) ground; Digital Input: Rated for 0-24VDC, input impedance 200k Ohms, logic threshold 1.24VDC; Analog Input: Rated for 0-10VDC, protected to 24VDC maximum, input impedance 200k Ohms; Programmable 3V, 2k Ohm pull-up resistor per input

NET (24 Y Z G)

(2) 4-pin 3.5 mm detachable terminal blocks, paralleled; Cresnet secondary port with hardwire parallel pass-through

Environmental

Temperature 32° to 86°F (0° to 30°C)
Humidity 10% to 90% RH (noncondensing)

Construction

Mounting Mounts in a 1- to 4-gang U.S. or 1-gang EU style electrical box (not included); Metal mounting ring included; 3.5 in. (26 mm) electrical box depth recommended; Derating required in multigang applications

Faceplate Requires a Horizon® 2 faceplate with mounting bracket (1-gang [HZ-FP-G](#), included); Metal mounting plate provides precise alignment during device installation and faceplate assembly; Multigang installations require a 2-, 3-, or 4-gang Horizon® 2 faceplate with mounting bracket ([HZ-FP-G](#), sold separately)

Dimensions

Height 4.73 in. (120 mm) with faceplate
Width 3.07 in. (78 mm) with 1-gang faceplate
Depth 0.64 in. (17 mm) overall, projects 0.44 in. (12 mm) from wall surface when installed

NOTE: Dimensions shown are without the detachable connectors.

Weight

4.2 oz (119 g)

Compliance

IC, FCC Part 15 Class B digital device

Regulatory Model: M201849007

To search for product certificates, refer to support.crestron.com/app/certificates.

Models

HZ2-KPCN-A ENGRAVED

Horizon® 2 Keypad with Cresnet® Communications, Custom

HZ2-KPCN

Horizon® 2 Keypad with Cresnet® Communications

Engraved, Almond

HZ2-KPCN-B ENGRAVED

Horizon® 2 Keypad with Cresnet® Communications, Custom Engraved, Black

HZ2-KPCN-W ENGRAVED

Horizon® 2 Keypad with Cresnet® Communications, Custom Engraved, White

HZ2-KPCN-A

Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, Almond

HZ2-KPCN-B

Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, Black

HZ2-KPCN-W

Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, White

Available Accessories

For a list of available accessories, visit the [HZ2-KPCN](#) product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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