HZ2-KPCN

Horizon® 2 Keypad with Cresnet® Communications

The HZ2-KPCN Horizon® 2 keypad provides Cresnet® network control of lighting, shading, audio, and other amenities. 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 push button assembly (Style 1) or custom engraving on any style button assembly.

White shown with Custom Engraving on a Style 1 Button Assembly, Faceplate included with Textured Model

- *1-gang EU/UK-style electrical box installation using the included metal backplate (glass and metal models require HZ2-KPCN-WMKT-EU/UK-10, sold separately)*
- *Horizon® 2 faceplate (1-gang model HZ2-FP-G series) included with textured models (not included with glass or metal models)*
- *Multigang installation using Horizon® 2 multi-gang faceplates (HZ2-FP-G series, sold separately)*
- *Preinstalled five 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*
- *White LED backlighting is available and can be dynamically set anywhere between 2000K and 8000K*
- *Replacement button assemblies available in six styles to accommodate changes in device function or engravings*
- *Textured blank button assemblies available for engraving by a third-party*
- *Ambient light sensor for auto-dimming with separate 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 textured, glass, and metal finishes*

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

Textured

Glass

Metal

- Custom engraving on any style button assembly is provided with the HZ2-KPCN-A ENGRAVED, HZ2-KPCN-W ENGRAVED, HZ2-KPCN-B ENGRAVED, HZ2-KPCN-GLASS-W ENGRAVED, HZ2-KPCN-GLASS-B ENGRAVED, HZ2-KPCN-BR-BLK-ENGRAVED, HZ2-KPCN-BR-BRASS-ENGRAVED, HZ2-KPCN-DRK-BRZ-ENGRAVED, and HZ2-KPCN-DRK-NKL-ENGRAVED.

Textured

Glass

Metal

Integrated Keypad

Supporting up to five buttons in six available button configurations, the HZ2-KPCN is configurable for a variety of applications. When connected to the Crestron network, the keypad can trigger remote actions.

Button Engraving

Each button on the assembly can be labeled with a custom laser-etched engraving to indicate its specific function. Engraved buttons can be illuminated using the device's LED backlights. Engraving is included with ENGRAVED models. Textured button assemblies without engraving (BLANK models) are also available and can be used as is or can be custom engraved by a third-party engraver.

> **NOTE:** Glass and metal buttons can only be engraved by Crestron and are not offered blank.

When a custom engraved model is ordered, the completed engraved button assembly is installed on the device before it is shipped. Engraving files must be provided at time of order and can be created using Impress Custom Engraving Software, the Crestron Home® Setup app, the Crestron Home Online Configurator, or D3Pro® software. If necessary, custom engraving can be changed until the order is processed by emailing orders@crestron.com with the updated engraving file and order information.

To order replacement engravings, refer to the HZ2-BTNS ENGRAVED button assembly product page.

Multicolor Backlit Buttons

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. Backlighting colors can be adjusted using Crestron Home software or other Crestron programming tools.

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

Field-replaceable button assemblies allow for changes in device function or for the customer to use the system before finalizing the engravings. The button assembly can be replaced with any custom engraved or blank HZ2-BTNS button assembly. All Horizon 2 devices can use textured, glass, or metal finishes.

The HZ2-KPCN devices are available in the following finishes and styles:

- Textured Finishes
  - White (-W)
  - Black (-B)
  - Almond (-A)
- Glass Finishes
  - White Glass (-GLASS-W)
  - Black Glass (-GLASS-B)
- Metal Finishes
  - Brushed Black (-BR-BLK)
  - Brushed Brass (-BR-BRASS)
  - Dark Bronze (-DR-BRZ)
  - Dark Nickel (-DR-NKL)

- **Style 1:** 5 single buttons

HZ2-BTNS-1 ENGRAVED (White shown)

- **Style 2:** 4 single buttons and 1 split rocker button; The split rocker button is located in the lowest button position

> **NOTE:** The split rocker button does not allow for a center push and shares one backlight.
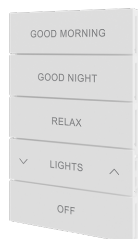
HZ2-BTNS-2 ENGRAVED (White shown)

- **Style 3:** 4 single buttons and 1 split rocker button; The split rocker button is located in the second lowest button position

  > **NOTE:** The split rocker button does not allow for a center push and shares one backlight.
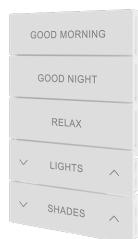
  HZ2-BTNS-3 ENGRAVED (White shown)

- **Style 4:** 3 single buttons and 2 split rocker buttons; The split rocker buttons are located in the two lowest button positions

  > **NOTE:** The split rocker buttons do not allow for a center push and each split rocker shares one backlight.
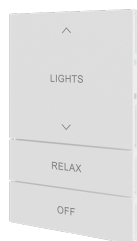
  HZ2-BTNS-4 ENGRAVED (White shown)

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

  > **NOTE:** The medium rocker button does not allow for a center push and provides a separate backlight for the top, bottom, and center positions.
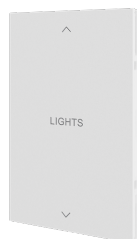
  HZ2-BTNS-5 ENGRAVED (White shown)

- **Style 6:** 1 large rocker button

  > **NOTE:** The large rocker button does not allow for a center push and provides a separate backlight for the top, bottom, and center positions.

  HZ2-BTNS-6 ENGRAVED (White shown)

HZ2-KPCN

Horizon® 2 Keypad with Cresnet® Communications

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.
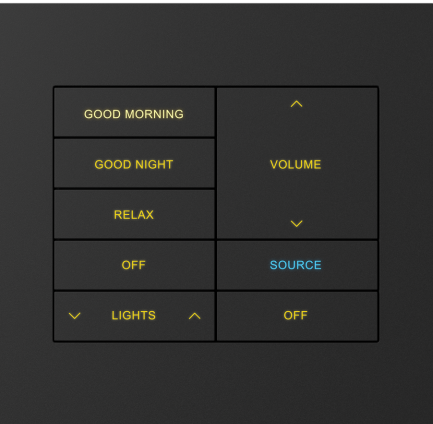
Ambient Light Sensor

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.

Built-In Control Ports

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

Standard Wall Mount

Horizon keypads are designed to fit in a standard electrical wall box, making them perfect for installation in a multi-gang box alongside other Horizon devices. Installation of glass and metal models in an EU/UK-style back box requires the HZ2-KPCN-WMKT-EU/UK-10 wall mount kit (sold separately).

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.

Specifications

Power Requirements

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

Controls

Push button	(9) Push buttons, located under the button assembly; Push buttons are actuated by the installed button assembly
Button Assembly	(1) Button assembly included; Default engraving: Includes default engraving on a Style 1 button assembly; Custom engraving (ENGRAVED models): Includes custom engraving on any style button assembly; Compatible with Style 1–6 button assemblies
Setup	(1) Push button; Front of the faceplate must be removed to access the push button; 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 client mode

Connections

INPUT (1 2 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 Ω, logic threshold 1.24VDC; Analog Input: Rated for 0–10VDC, protected to 24VDC maximum, input impedance 200k Ω; Programmable 3V, 2k Ω 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

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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); Note: Glass and metal models require HZ2-KPCN-WMKT-EU/UK-10 (sold separately) for mounting in EU style electrical boxes; 3.5 in. (26 mm) electrical box depth recommended
Faceplate	Horizon® 2 faceplate required for installation; 1-gang faceplate (HZ-FP-G) with one-piece metal backplate is included with textured models Multigang installations require a 2-, 3-, or 4-gang Horizon® 2 faceplate with metal backplate (HZ-FP-G, sold separately); The metal backplate is required for all installations where the electrical box is flush with or recessed from the wall surface and during installation into a 1-gang EU style electrical box; The metal backplate is not recommended for electrical boxes that protrude beyond the wall surface

Dimensions

Height	4.13 in. (105 mm) without faceplate
Width	1.80 in. (46 mm)
Depth (Textured)	0.64 in. (17 mm) overall, projects 0.44 in. (12 mm) from wall surface when installed
Depth (Glass, Metal)	0.71 in. (18 mm) overall, projects 0.46 in. (12 mm) from wall surface when installed

> **NOTE:** Dimensions shown are without the detachable connectors.

Weight

4.8 oz (135 g)

Compliance

IC, FCC Part 15 Class B digital device

Regulatory Model: M201849007

Models

Textured

HZ2-KPCN-A ENGRAVED
Horizon® 2 Keypad with Cresnet® Communications, Custom 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

Glass

HZ2-KPCN-GLASS-B ENGRAVED
Horizon® 2 Keypad with Cresnet® Communications, Custom Engraved, Black Glass

HZ2-KPCN-GLASS-W ENGRAVED
Horizon® 2 Keypad with Cresnet® Communications, Custom Engraved, White Glass

HZ2-KPCN-GLASS-B
Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, Black Glass

HZ2-KPCN-GLASS-W
Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, White Glass

Metal

HZ2-KPCN-BR-BLK ENGRAVED
Horizon® 2 Keypad with Cresnet® Communications, Custom Engraved, Brushed Black

HZ2-KPCN-BR-BRASS ENGRAVED
Horizon® 2 Keypad with Cresnet® Communications, Custom Engraved, Brushed Brass

HZ2-KPCN-DRK-BRZ ENGRAVED
Horizon® 2 Keypad with Cresnet® Communications, Custom Engraved, Dark Bronze

HZ2-KPCN-DRK-NKL ENGRAVED
Horizon® 2 Keypad with Cresnet® Communications, Custom Engraved, Dark Nickel

HZ2-KPCN-BR-BLK
Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, Brushed Black

HZ2-KPCN-BR-BRASS
Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, Brushed Brass

HZ2-KPCN-DRK-BRZ
Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, Dark Bronze

HZ2-KPCN-DRK-NKL
Horizon® 2 Keypad with Cresnet® Communications, Standard Engraved, Dark Nickel

Available Accessories

For a list of available accessories, visit the HZ2-KPCN product page.

HZ2-KPCN

1.80 in.
(46 mm)

4.13 in.
(105 mm)

3.28 in.
(84 mm)

0.39 in.
(10 mm)

0.64 in.
(17 mm)

1.75 in.
(45 mm)

2.00 in.
(51 mm)

HZ2-KPCN Glass and Metal

1.75 in.
(45 mm)

.46 in.
(12 mm)

1.80 in.
(46 mm)

3.37 in.
(86 mm)

2.00 in.
(51 mm)

4.12 in.
(105 mm)

.71 in.
(18 mm)