

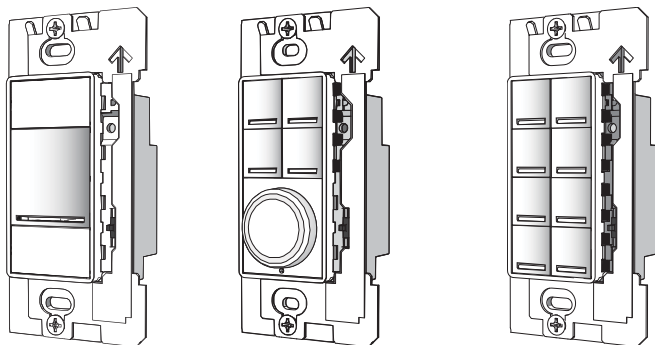
# ETC Installation Guide

## Unison Paradigm® Inspire® Station

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### Overview

Paradigm Inspire Stations provide preset, zone, space combine, color controls, and macro support for use with the Unison Paradigm control system.



Reference the ETC website at [etcconnect.com](http://etcconnect.com) for related Paradigm Inspire Station documentation including the data sheet which provides a complete listing of station types, and reference the Unison LightDesigner online help system for details to configure and program all station controls and features.

Stations are available in 1, 2, 4, 6, and 8 button assemblies, and a 4 button with fader station. Station buttons and the fader knob are backlit by red, green, and blue LEDs.

### Configuration

The Paradigm Architectural Control Processor (P-ACP) to which this Paradigm Inspire Station is connected must learn, or be told, the station hardware address (a.k.a. neuron ID). This ID (as labeled on the station) can be manually entered into the configuration using LightDesigner software, or it can be identified by the connected Paradigm ACP using the “Connect Device” menu.

Reference the Unison Paradigm Architectural Control Processor Configuration Manual; specifically the section on Arch Setup Menu > LonWorks Connections, or the reference Paradigm LightDesigner online help system for related information to associate and connect the station to the Paradigm control system.



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**Corporate Headquarters** ■ Middleton, Wisconsin, USA ■ Tel +608 831 4116  
**Service (Americas)** ■ [service@etcconnect.com](mailto:service@etcconnect.com)  
**London, UK** ■ Tel +44 (0)20 8896 1000 ■ Service: (UK) [service@etc europe.com](mailto:service@etc europe.com)  
**Rome, IT** ■ Tel +39 (06) 32 111 683 ■ Service: (UK) [service@etc europe.com](mailto:service@etc europe.com)  
**Holzkirchen, DE** ■ Tel +49 (80 24) 47 00-0 ■ Service: (DE) [techserv-hoki@etcconnect.com](mailto:techserv-hoki@etcconnect.com)  
**Hong Kong** ■ Tel +852 2799 1220 ■ Service: (Asia) [service@etcasia.com](mailto:service@etcasia.com)  
**Web:** [etcconnect.com](http://etcconnect.com) ■ © 2017 Electronic Theatre Controls, Inc. ■ Product information and specifications subject to change. ■ ETC intends this document to be provided in its entirety.  
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## Paradigm Inspire Station

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### Prepare for Installation

Paradigm Inspire Stations ship with station electronics and a termination kit. The station may be installed into an industry standard switch box (provided by others) or surface mounted back box (sold separately and available from ETC).

### Ambient Environment

For indoor, commercial controls use only.

- Operating temperature 0-50°C, 5-95% non-condensing humidity

### Compliance

- UL/cUL listed
- CE compliant

For use with ETC Paradigm Control Systems, powered by Paradigm Station Modules and/or Paradigm Station Repeater Modules.

### Control Wire Specification

Inspire stations connect to the LinkConnect station communication bus. LinkConnect is a bidirectional protocol that uses one pair of wires (data+ and data-) for both data and power. ETC recommends using Belden 8471 (or approved equal) Class 2 wire. The total combined length of a LinkConnect wire run (using Belden 8471, or equal) may not exceed 1,640 feet (500m) with a maximum distance of 1,312 feet (400m) between any two devices.



**Note:** *All control wiring should be installed and terminated by a qualified installer and should follow standard wiring installation practices.*

*Leave approximately 10 inches (254mm) of wiring in the switch box for connection and to allow slack for future service needs.*



**Note:** *ETC requires that all stations be grounded. Pull an additional 14 AWG (2.5mm<sup>2</sup>) wire for grounding when control wires are not installed in grounded metal conduit.*

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### Installation

Installation should follow all local codes and standard electrical practices.



**Note:** *NEC Class 2 product to be wired in accordance to NEC Article 725 and local jurisdiction requirements.*

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The switch box should be installed plumb and square for best results. Ensure that the switch box is clean and free of obstructions and that all wiring is installed correctly.

Paradigm Inspire stations ship with a termination kit for use with Belden 8471 (or equivalent wire), a LinkConnect power pigtail, ground wire pigtail, spacers, and all required wire termination connectors for installation.

### Connect Wiring

- 1: Pull all required wiring (data+, data-) into the installed switch box. As needed, pull an additional ESD ground wire (required when wiring is not installed in grounded metal conduit).
- 2: Connect station ESD ground wire pigtail.
  - a: Strip 3/8" (9-10mm) of insulation from the ends of the station ground wire pigtail, provided in the termination kit, and the incoming ground wire.
  - b: Use one WAGO connector, provided in the termination kit, to connect the station ESD ground pigtail and the incoming ground. For stations using grounded metal conduit, connect the ground pigtail to the metal switch box ground location.
  - c: Install the ESD ground wire pigtail Faston connector to the spade terminal on the station electronics.
- 3: Terminate and connect LinkConnect wires. LinkConnect is topology free and polarity independent, you may install the wires in any combination of bus, star, loop, or home-run.
  - a: Strip 3/8" (9-10mm) from the ends of each power pigtail wire, provided in the termination kit, and the installed control wires.
  - b: Use the provided WAGO connectors to connect the power pigtail wires and the installed Belden 8471 control wires. One WAGO should be used for the white wire pair (data +) and one for the black wire pair (data -). Open the terminal levers on the WAGO connector and insert the installed Belden 8471 wire and the lead from the power pigtail into the terminals then close the levers.
  - c: Install the two pin connector from the power pigtail to the mating receptacle on the station electronics.

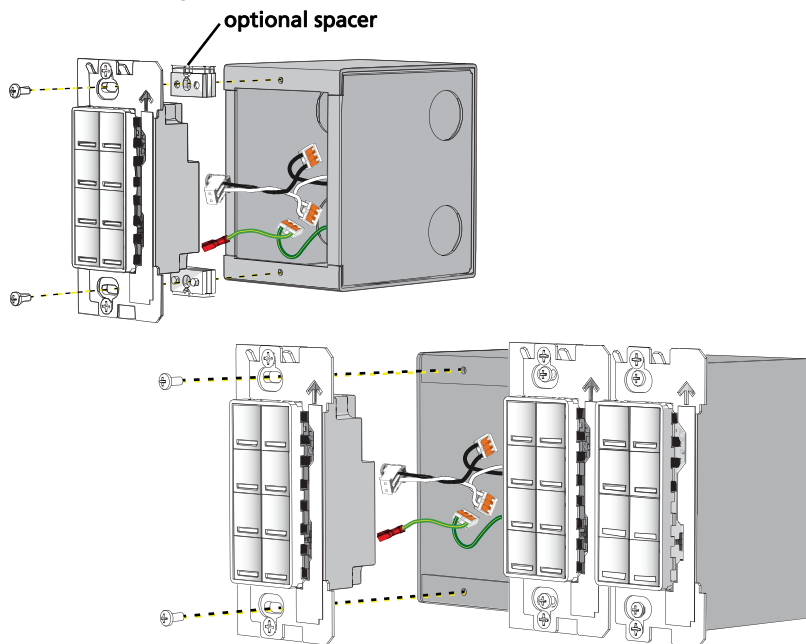
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### Install the Station into the Switch Box

Receptacle spacers are provided to help align the station and cover flush against the wall in flush mount applications. The spacers are not required when installing the station into a surface mount switch box.



- 1: Insert the station electronics and wiring into the switch box. To install multiple stations (multi-gang), insert each station electronics into the switch box from the right to the left side for the best alignment and fit. The alignment bracket will slightly overlap the station to the right when properly installed.
- 2: Use spacers as needed to provide a flush mounted station.
  - a: Fold the spacer in a zig-zag fashion and press the stack together to achieve the thickness needed to fill the gap between the station, wall surface, and the switch box.
  - b: Cut off and discard the excess.
  - c: Place the stack between the station electronics and the flush mounted switch box.

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- 3: Secure each station electronics in place using the two screws provided. If using spacers, insert the screws through the spacers as well.

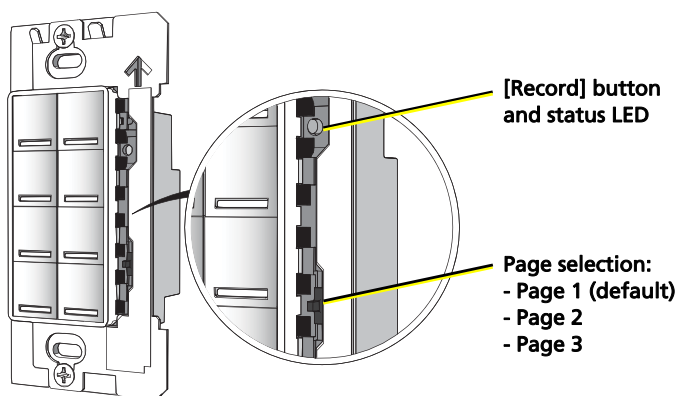


**CAUTION:** *To ensure successful station and wall plate installation, do not over tighten the screws. If screws are over tightened, button activation can be negatively impacted.*

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### Station Configuration

The Paradigm Inspire Station has on-board switch and button settings that are available from the front of the station when it is installed and the wall plate is removed.



Page configuration must be configured and may differ according to the custom settings made in LightDesigner software. The settings referenced in this document are the default settings.

Reference the LightDesigner integrated help system for details on configuring different settings for each station page.

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### Replace Button Caps

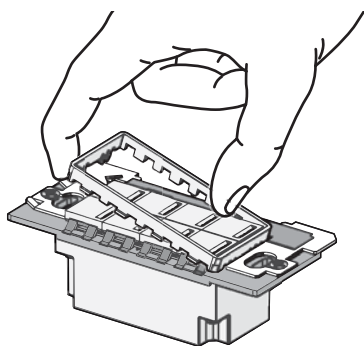
Paradigm Inspire stations ship with button caps that are engraved with standard legends. Custom legends are available. Contact the ETC project management department for ordering instructions.

To replace a button cap, first remove the bezel and button cap from the station electronics.



**Note:** *Button caps for some station types are left and right specific. Be sure the button cap you are replacing matches the same left or right type.*

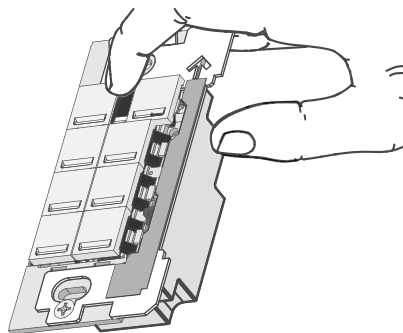
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- 1: Remove the bezel from the station electronics.

- Each corner of the bezel is provided with a notch to assist with bezel removal. Use a nail to lift a corner free, then gently remove the bezel from the station.

- 2: Remove the button cap.
  - Using the pads of your fingers, press on the cap and slide it off the button (slide towards the hinge).



- 3: Install the new button cap onto the button by aligning the grooves of the cap to the button, then sliding the it in place starting at the hinge. Slide the cap until it covers the entire button and clicks into place.
- 4: Replace the bezel to the station electronics when all button caps are in place.

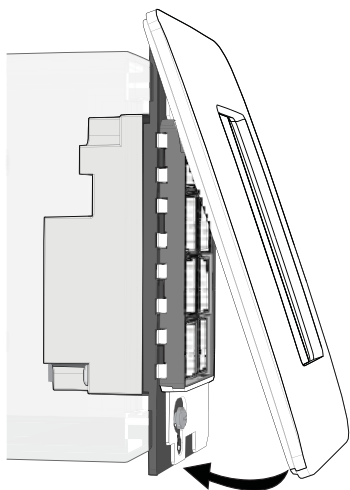
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### Install the Wall Plate

The wall plate is secured to the station with built-in magnets.



- 1: Align the top of the wall plate to the station and angle the bottom approximately 20 degrees.
- 2: Hook the top of the wall plate to the tabs located on the station electronics assembly. To ensure the wall plate is hooked properly on the top hook, wiggle it slightly side to side.
- 3: Swing the bottom of the wall plate down until the magnets engage.
- 4: If the wall plate does not fully attach automatically, wiggle the bottom of the plate until all of the magnets are seated properly to the station and the plate is secure.



**Note:** *When installing a multi-gang wall plate and the stations are misaligned in the mounting box, the wall plate will not attach properly. Loosen the screws that secure the station to the switch box, adjust each station to improve the alignment, secure the screws, then retry wall plate installation.*

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## Power Up and Bind to P-ACP

All LinkConnect terminations in the system must be made before applying power to the system. When the station is powered up, the station cycles all control LEDs in red, green, then blue. The station will bind to the Paradigm Architectural Control Processor (P-ACP) if the system was pre-configured and ready for binding at power up. When the station binds to the P-ACP, it will receive all configuration properties from the connected P-ACP.

If the station does not bind to the P-ACP, all controls on the station will remain off. Any button press will cause the station to cycle through all controls on the station twice, indicating each control LED in green. To send a service pin command from the station to the P-ACP, press the **[Service Pin]** button located on the rear of the station or press any control.

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