



ECHO Power Control Processor Mk2 Network Termination Kit User Guide

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Power Control Processor Mk2 Network Termination Kit



Product Information

The Power Control Processor Mk2 (PCP-Mk2) is a component used in Echo Relay Panel Mains Feed and Elaho Relay Panel Mains Feed (ERP Mains Feed), Echo Relay Panel Feedthrough and Elaho Relay Panel Feedthrough (ERP Feedthrough), and Sensor IQ systems. The PCP-Mk2 network termination kit includes Cat5 connectors, a surface-mount Cat5 box, double-stick tape, and Cat5 patch cables. The kit is available in two variants, 7123K1129 ERP-FT and 7131K1029 Sensor IQPCP-Mk2 Network Termination Kits, and 7123K1029 ERP PCP-Mk2 Network Termination Kit. The product is designed to help users wire the connectors and assemble them into the panels efficiently.

Product Usage

WARNING: RISK OF DEATH BY ELECTRIC SHOCK!

Before working inside the panel, ensure that all power to the panel is disconnected to avoid serious injury or death.

Required Tools

Users require an ETC Retrofit Guide, Power Control Processor Mk2 Network Termination Kit, and standard Cat5 installation tools.

Wiring the Connector

Follow these steps to wire the Category 5 surface-mount connector:

1. Leave a length of about 25 cm (10 in) in the panel for connecting and for slack for future service needs.
2. Follow standard Cat5 installation procedures to remove the end of the cable jacket and expose the conductors.
3. Untwist the conductors and line them up according to the T568B color-coded markings. Insert the conductors

into the connector cap. The cable jacket should come close to the edge of the connector with as little of the conductors visible as possible. Otherwise, cut off the cable squarely and start again.

4. If any conductors extend beyond the edge of the connector cap, trim the excess so that the ends of the conductors are flush with the edge of the connector cap.
5. Press the cap firmly on the connector base until the two pieces snap together. Use slip joint pliers to apply pressure evenly across the cap and to secure the connection, but make sure not to break the plastic while applying pressure.

Attaching the Connector to the Box and Assembling

Follow these steps to attach the connector to the box and assemble:

1. Insert the front edge of the connector into the mounting box so that the slot in the front edge of the connector aligns with the tab in the bottom section of the box.
2. Push down on the back of the connector to snap it into the box.
3. The rear of the cover has a small U-shaped cutout. Remove this cutout to allow the cable to pass through without getting pinched. Route the cable through the box's guide as shown.
4. Align the cover with the bottom section and snap the two pieces together.

Installing the Connector in the Panel

Use the double-sided tape provided in the retrofit kit to attach the bottom of the surface-mount box to your panel. See the following illustrations for reference:



After attaching the surface-mount box to the panel, the product is ready for use.

Overview

- The Power Control Processor Mk2 (PCP-Mk2) is used in Echo Relay Panel Mains Feed and Elaho Relay Panel Mains Feed (ERP Mains Feed), Echo Relay Panel Feedthrough and Elaho Relay Panel Feedthrough (ERP Feedthrough), and Sensor IQ systems.

- **WARNING:** RISK OF DEATH BY ELECTRIC SHOCK! Failure to disconnect all power to the panel before working inside could result in serious injury or death.
- De-energize main feed to the panel and follow appropriate Lockout/Tagout procedures as mandated by NFPA 70E. It is important to note that electrical equipment such as relay panels can present an arc flash hazard if improperly serviced. This is due to the high amounts of short-circuit current available on the electrical supply to this equipment. Any work must comply with OSHA Safe Working Practices.

Included in the Kit

7123K1129 ERP-FT and 7131K1029 Sensor IQPCP-Mk2 Network Termination Kits

Description	ETC Part Number	Quantity
Cat5 connector	N2026	1
Surface-mount Cat5 box	N2025	1
Double-stick tape, 1.5 in	I342	1
1 ft Cat5 patch cable	N4036	1

7123K1029 ERP PCP-Mk2 Network Termination Kit

Description	ETC Part Number	Quantity
Cat5 connector	N2026	1
Surface-mount Cat5 box	N2025	1
Double-stick tape, 1.5 in	I342	1
Cable tie adhesive mount	HW741	2
Cable tie	HW701	2
4 ft Cat5 patch cable	N4009	1

Required Tools

- Phillips screwdriver
- Slip joint pliers
- Sheathing tool or cutter for Cat5 cable jacket

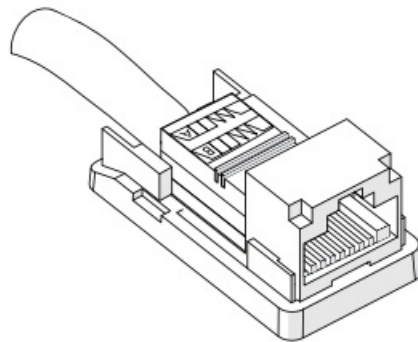
Wire the Connector

The Category 5 surface-mount connector supplied in this kit includes two pieces: a base unit and a cap. The cap has colored markings on one end to indicate where to insert each of the cable's color-coded wires. Follow the T568B wiring scheme, as illustrated on the cap sticker, for compatibility with ETC network wiring conventions.

1. Leave a length of about 25 cm (10 in) in the panel for connecting and for slack for future service needs.
2. Follow standard Cat5 installation procedures to remove the end of the cable jacket and expose the

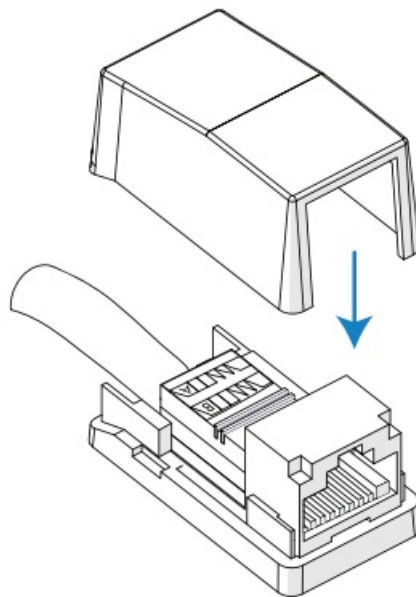
conductors:

- Remove about 13 mm (1/2 in) of the end of the outer cable jacket using a sheathing tool or cutter, making sure not to damage the insulation of the inner conductors. If one or more of the conductors are damaged during this process, cut the cable off squarely and start again.
3. Untwist the conductors and line them up according to the T568B color-coded markings. Insert the conductors into the connector cap. The cable jacket should come close to the edge of the connector with as little of the conductors visible as possible. Otherwise, cut off the cable squarely and start again.
 4. If any conductors extend beyond the edge of the connector cap, trim the excess so that the ends of the conductors are flush with the edge of the connector cap.
 5. Press the cap firmly on the connector base until the two pieces snap together. Use slip joint pliers to apply pressure evenly across the cap and to secure the connection, but make sure not to break the plastic while applying pressure.



Install the Connector in the Panel

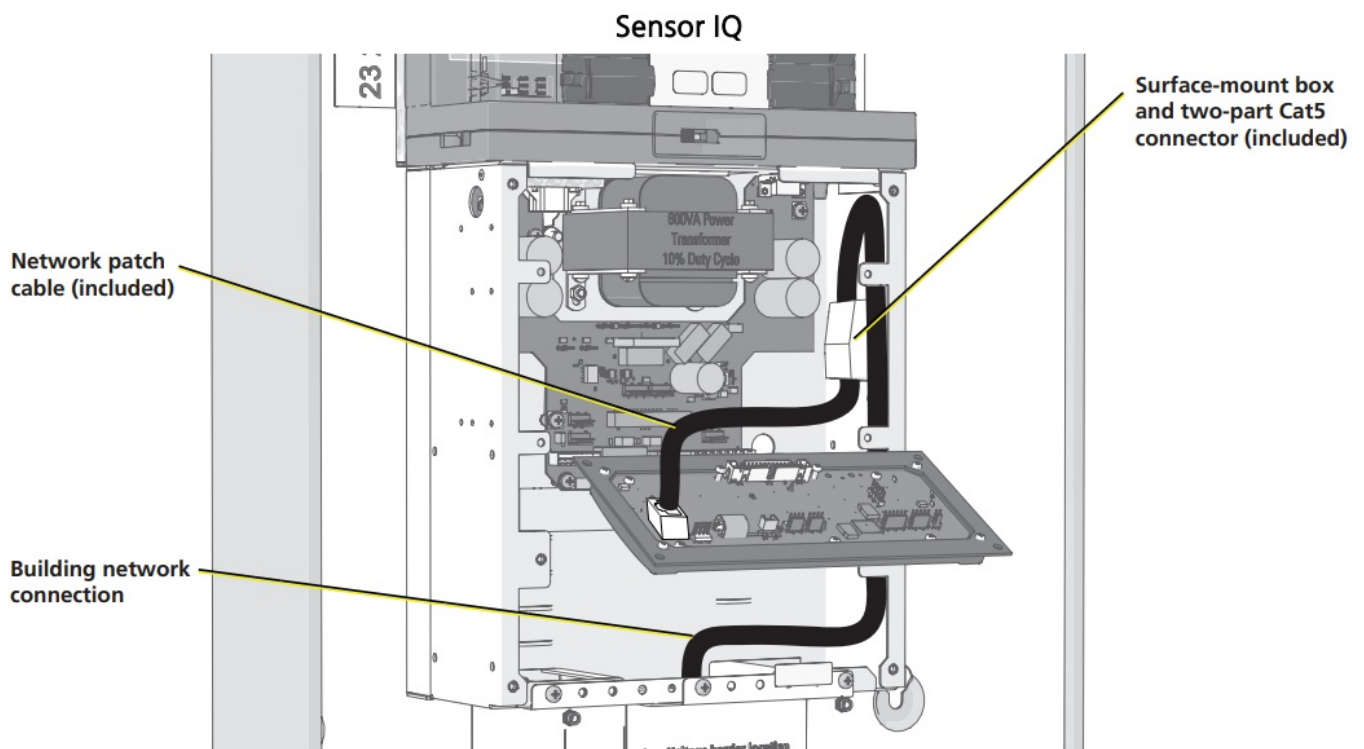
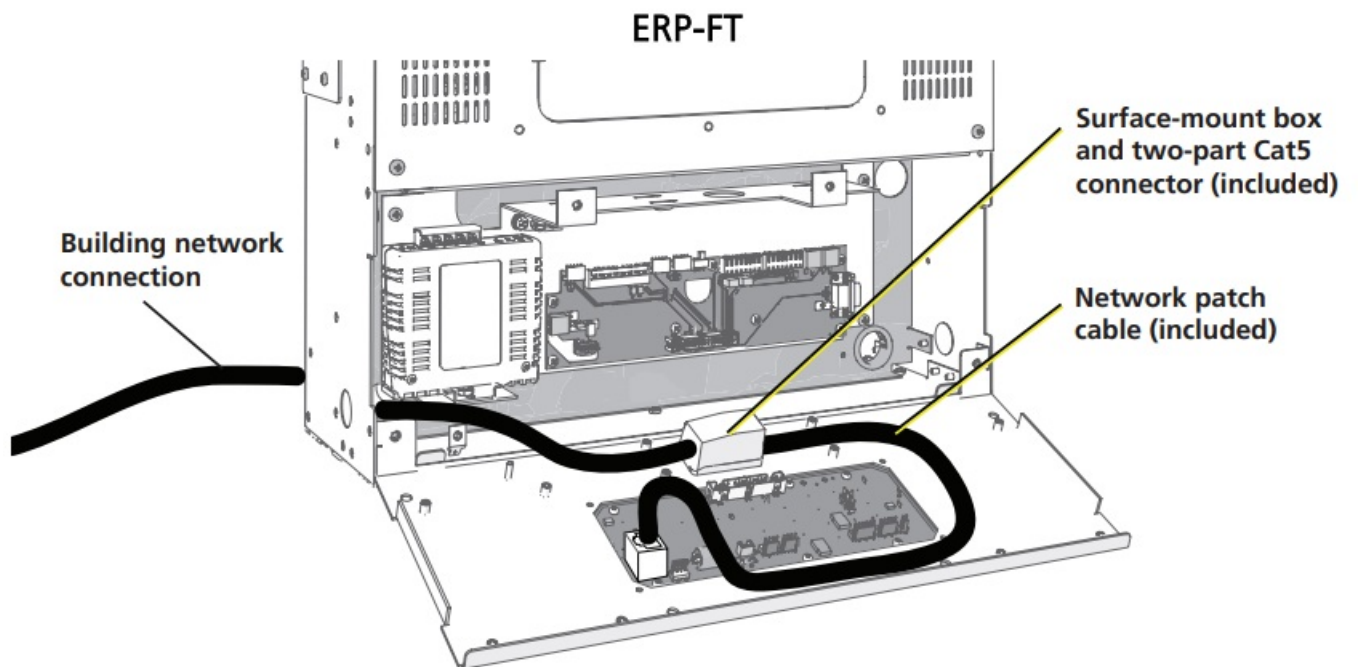
Use the double-sided tape provided in the retrofit kit to attach the bottom of the surface-mount box to your panel. See the following illustrations. See the following illustration.



Connect the Patch Cable

ERP Feedthrough or Sensor IQ

Connect the 1 ft patch cable (N4036) from the surface-mount connector to the back of the user interface.

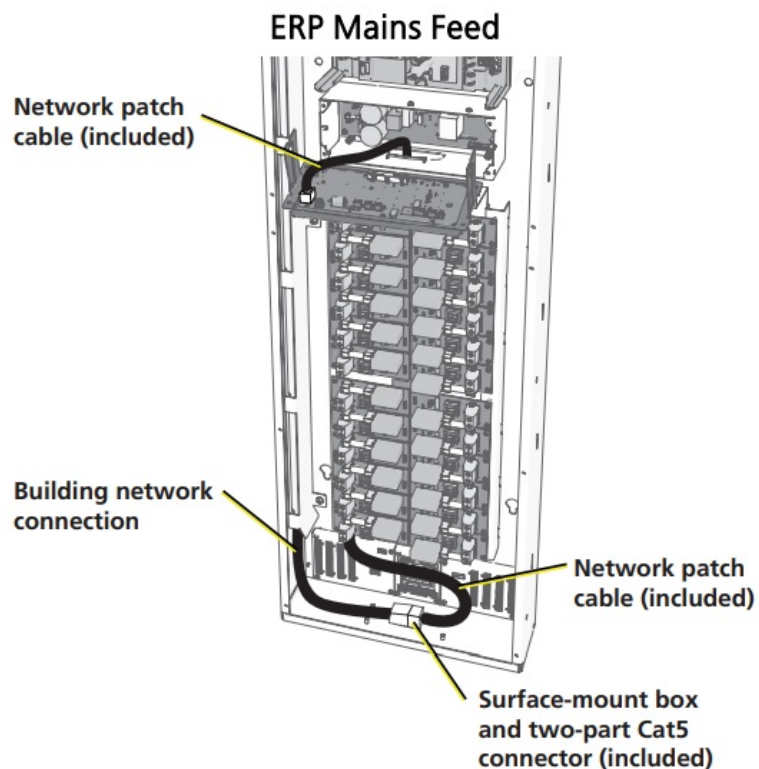


Note: The Sensor IQ shown above is mounted in a top-feed orientation

ERP Mains Feed

Top-Feed

1. Route the 4 ft network patch cable (N4009) through the ribbon cable opening in the bottom of the user interface enclosure, behind the relay card mounting panel to the surfacemount box.
 - The kit includes a cable tie and adhesive cable tie mount to dress the patch cable, as needed.
2. Connect the patch cable to the surface-mount box.
3. Connect the patch cable to the back of the user interface.



Bottom Feed

1. Route the 4 ft network patch cable (N4009) from the surface-mount box, behind the relay card mounting panel, and through the ribbon cable opening in the bottom of the user interface enclosure.
 - The kit includes a cable tie and adhesive cable tie mount to dress the patch cable, as needed.
2. Connect the patch cable to the back of the user interface.
3. Connect the patch cable to the surface-mount box.

Documents / Resources

	<p>ECHO Power Control Processor Mk2 Network Termination Kit [pdf] User Guide Power Control Processor Mk2, Network Termination Kit, Power Control Processor Mk2 Network Termination Kit, Termination Kit, PCP-Mk2</p>
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References

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