

Echoflex Solutions Release Notes

Elaho Power Control Processor Mk2 Software

Product Line: Power Control Processor Mk2 Software
Description: Version 4.0.1 System Software / Firmware

Power Control Processor Mk2 Software Components

Elaho Relay Panel Firmware	4.0.1.29
Elaho Relay Panel Bootloader	1.0.0.5

Effective Date: 2023-03-30

Purpose

This release of Power Control Processor Mk2 Software (PCP-Mk2) provides bug fixes. The Power Control Processor Mk2 Software is used in the Elaho Relay Panel Mains Feed and Elaho Relay Panel Feedthrough.

For any questions relating to the contents of this release or the behavior of this software, please contact Echoflex Solutions Technical Services using the information at the bottom of this page.



Note:

- *The ability to send and receive configuration files over the network between ETC Concert and Power Control Processor Mk2 will be supported in a future version of Power Control Processor Mk2 Software.*
- *The ability to update option card firmware will be supported in a future version of Power Control Processor Mk2 Software.*



Note: *A dimmer can be identified as Forward-Phase or Phase-Adaptive from the user interface of an Elaho Relay Panel Mains Feed ([Enter]>About>About Output). The software version of a Forward-Phase Dimmer will display as a three-digit number (for example, 116). The software version of a Phase-Adaptive Dimmer will display as a two-digit number (for example, 16).*



Note: *After configuring the Power Control Processor Mk2 via the integrated UI, save the configuration file and reboot the PCP-Mk2.*

Availability

This software is currently available in all shipping Power Control Processor Mk2 units and from Echoflex Solutions Technical Services. If you encounter difficulties or need an upgrade, a kit is available that includes a suitable USB stick with software pre-loaded (part 7123K1024-4.0.1).

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Documentation

Current documentation includes the *Power Control Processor Mk2 Configuration Manual* and installation guides for the Elaho Relay Panel Mains Feed (including option kits) and Elaho Relay Panel Feedthrough (including option kits).

Please keep this release note with your installation guide for descriptions of the newest features, changes, and bug fixes. Echoflex Solutions manuals are in portable document format (pdf) and are available for download at echoflexsolutions.com.

Compatibility

This release is compatible with the following Echoflex Solutions hardware and software/firmware:

- 0–10V Dimming Control Option Card
- DALI Control Option Card
- RideThru Option
- sACN Protocol: Ratified input compatibility



Note: *Power Control Processor Mk2 does not support the Override Relay Panel Option (ORPO) on first-generation ERP Mains Feed panels.*

Key Enhancements in v4.0.1

- Bug fixes

Power Control Processor Mk2 Software ships with the current version of software installed. The firmware of your Power Control Processor Mk2 Software can be field-upgraded as needed. When new firmware is released, Echoflex Solutions Technical Services can supply the necessary files. Some USB keys may not be able to reliably update panels. If you run into this situation, contact Echoflex Solutions Technical Services and request a USB upgrade Kit (part number 7123K1024-4.0.1), which includes a known-working USB key.



CAUTION: *Updating firmware may cause outputs to change. Only perform firmware updates when it is acceptable for output levels to turn on or off. Interrupting power during a firmware update may render the panel inoperable.*



CAUTION: *Do not remove the USB key until the update has completed.*

1. Technical Services will send you the most current software in a zip file or on the USB key in the upgrade kit. If using your own USB storage device, unzip and save the software file (e_pcp_2.efw) to the root directory of the device.
2. Insert the USB storage device in the USB port on the left side of the front of the user interface.
3. Navigate to **File Operations**.



Note: *Do not turn off power to the controller during the firmware update process.*

Issues Corrected in v4.0.1

- PCP2-257 Inconsistent CAN bus halting with option cards
- PCP2-256 Flash clock speeds were set unnecessarily slow

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Known Issues Remaining in v4.0.1

- PCP2-261 Periodically logs erroneous DMX Acquired message with constant DMX data
- PCP2-255 sACN sources are acquired and applied asynchronously on network bringup
- PCP2-254 sACN Preview is rejected for level setting, but counts as a source
- PCP2-250 Some panel outputs take longer to reach configured emergency levels than others
- PCP2-249 Wait and Fade can malfunction with multiple sACN sources using per-address priorities
- PCP2-248 Disruption of Ethernet connectivity can result in approximately 11 second loss of control from sACN sources
- PCP2-246 Repatching sACN while under data loss behavior (HLL) results in all outputs associated with that universe getting released

- PCP2-234 Controller loses assigned IP address from DHCP server after being unplugged from network
- PCP2-233 Rack outputs toggle when switching from Automatic to Manual static IP
- PCP2-230 Change to sACN patch can cause outputs to toggle when there are multiple sACN sources and differing sACN priority
- PCP2-229 Streaming ACN sources with a priority of 0 are not ignored
- PCP2-219 Individual poles of Multipole breakers can get stuck on None, must use Quick Rack Setup to reset rack
- PCP2-214 Voltage reporting updates faster than it can be displayed, resulting in blurred digits
- PCP2-205 Multi-pole breaker Pos and Ckt values do not show up correctly in Levels Summary
- PCP2-203 Removing USB during firmware update can result in the PCP Mk2 freezing and requiring power cycle reboot
- PCP2-198 PCP Mk2 must be rebooted if firmware update fails for any reason
- PCP2-197 When navigating USB media, cannot return to previous directory
- PCP2-196 UI scrolling does not speed up as button is held down
- PCP2-195 Internal sACN priority briefly jumps to 252 when changing an output's sACN patch info
- PCP2-191 Syslog shows controller occasionally switches to per-universe priority for per-address universe sources under worst-case network traffic conditions

- PCP2-190 Edits to sACN data loss behavior do not get reapplied if edited during active data loss
- PCP2-189 sACN DLB of wait and fade does not fade
- PCP2-186 PCP Mk2 occasionally logs sACN sources dropping offline under heavy network load
- PCP2-160 Scrolling speed while holding Up or Down buttons can be inconsistent, or pause
- PCP2-158 About Output pages always show 48 slots
- PCP2-152 'Presets Active' can get stuck on after sequence activated and stopped
- PCP2-140 Configuration strings do not accept all UTF-8 characters
- PCP2-138 UpdaterAtoR does not yet support PCP Mk2
- PCP2-109 Invalid Configuration is not displayed on the front panel if you attempt to load an invalid config
- PCP2-106 Power on behavior of "Off" may not affect dimmer outputs
- PCP2-105 If both Network and other control sources are present, outputs may take time to settle on reboot
- PCP2-103 Last Look power on behavior is not applied to channels ignored by emergency look, if emergency is last event before power loss

- PCP2-102 Last Look level display not consistent between relays and dimmers
- PCP2-96 Syslog message about changing config does not include source
- PCP2-84 About Output > Levels Summary always 48 lines long on Echo DIN
- PCP2-79 Timeclock is not currently implemented
- PCP2-19 Active daylight savings is not correctly accounted for when setting current time