



User Manual

DPC-12 & DPC-24

3000 Series Digital Pack Controller
Control Retrofit for CD80 Portable Dimmer Packs

Model	Description
DPC-12	CD80 12 x 2.4kW, 6 x 6kW and 6 x 12kW Portable Dimmer Packs.
DPC-24	CD80 24 x 1.2 kW and 24 x 2.4kW Portable Dimmer Packs. CD80 48 x 2.4kW Compact Rolling Racks (requires 2 per rack).

JSI Manufacturing
www.jsimanufacturing.com



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Warranty

DPC-12 and DPC-24 retrofit control modules comes with a standard two (2) year limited warranty against defects in parts and workmanship.

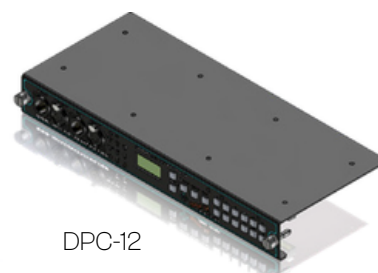
Extended warranties of up to ten (10) years are available at the time of purchase.



Introduction

Digital Pack Controllers (DPC's) are a next generation retrofit electronics package designed specifically for upgrading Strand CD80 12 channel and 24 channel portable dimmer packs, as well as 48 channel compact rolling racks. This direct plug-in replacement control module supersedes all previous generations of OEM and aftermarket controllers in both reliability and features.

"Basic Mode", on power up, was designed specifically at the request of major U.S. studios and rental houses. Advanced features for the more selective user allow customization of over 30 additional features. Advanced next generation "3000 Series" hardware and software designs reduce stand-by power consumption to less than 1 Watt. Exclusive "lamp warming" techniques extend lamp life considerably.



Packaging & Contents

DPC-12 and DPC-24 retrofit control modules are shipped in a custom designed box and packaging for protection of the unit. It is recommended to keep the box and packaging stored in a safe place. In the unlikely event that the system needs to be returned to the JSI Factory, the packaging will help prevent shipping damage and maintain warranty.

Installation

DPC-12 and DPC-24 retrofit control modules are a "plug-and-play" replacement for the OEM (Original Equipment Manufacturer) CD80 dimmer pack control module.

- Disconnect (turn off) the power supply to the CD80 dimmer pack.

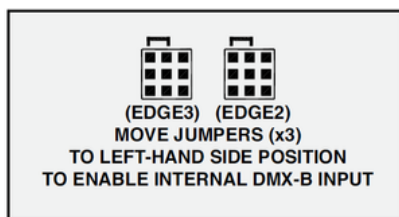
WARNING! Verify all power is disconnected (turned off) before proceeding.

Removal of the old CD80 pack control module

- Loosen the two (2) thumbscrews located on each end of the control module.
- Carefully pull straight out on the thumbscrews to remove the control module.
- Determine if the DMX input is connected internally, on a terminal block mounted inside the CD80 dimmer pack. If it is, determine which rear connector the DMX comes in through.

Installation of the new DPC-12 or DPC-24 retrofit control module

- Remove your new DPC-12 or DPC-24 retrofit control module from the box.



EDGE2, 16-Pin Edge Connector	
PIN	FUNCTION
13	DMX-B Input Data+
15	DMX-B Input Data+
16	DMX-B Input Shield / Common

EDGE3, 20-Pin Edge Connector	
PIN	FUNCTION
1	DMX-B Input Shield / Common
2	DMX-B Input Data+
3	DMX-B Input Data-

- If the DMX input is connected internally, on a terminal block mounted inside the CD80 dimmer pack, jumpers will need to be moved on the DPC-24/12 circuit board to enable the DMX-B input. To enable the internal DMX through the EDGE2 connector on the DPC-24/12 circuit board, move the three (3) jumpers on JP2 to the left-hand side position. To enable the internal DMX through the EDGE3 connector on the DPC-24/12 circuit board, move the three (3) jumpers on JP3 to the left-hand side position.
- Line up the DPC-12 or DPC-24 control module with the guide rails on each end of the control module slot.
- Carefully slide the DPC-12 or DPC-24 control module in until the connectors on the DPC-24/12 circuit board touch the rear connectors inside the CD80 dimmer pack.
- Line up the two (2) thumbscrews on the DPC-12 or DPC-24 with the mounting holes on the CD80 dimmer pack.
- Firmly push the DPC-12 or DPC-24 in on both ends until the control module is fully seated.



NOTE: If it feels like the control module isn't fully seated or doesn't slide in easily, it may be necessary to re-align the rear connectors inside the CD80 dimmer pack to their upper most position, due to the inconsistencies in the assembly of the CD80 dimmer pack. This can be accomplished by loosening the two (2) mounting screws on each end of the rear connectors by half a turn, sliding the connectors up as much as possible and then re-tightening the mounting screws.

- Tighten the two (2) thumbscrews to secure the DPC-12 or DPC-24 in the CD80 dimmer pack.

Turn on and test the new DPC-12 or DPC-24 retrofit control module

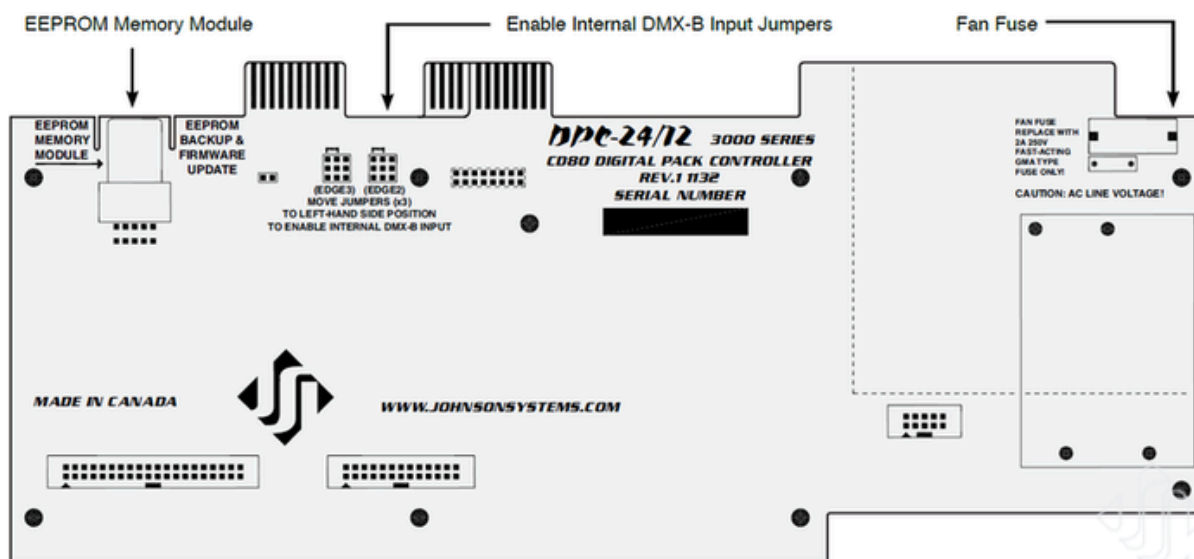
- Connect (turn on) the power supply to the CD80 dimmer pack.
- Verify the operation of the system status LED indicators, LCD display and programming switches.
- Refer to the programming section of this manual for system configuration.
- Test the system thoroughly to ensure everything is functioning properly.
- Verify all of the dimmer control outputs have the correct phase referencing. If a dimmer control output is patched to the incorrect phase reference, the dimmer will not dim correctly and will go to full output at around 1% DMX input. The factory configuration for DPC-12 and DPC-24 control modules is for standard three-phase applications, with the dimmer phase reference patch set at AAAABBBBCCCC... For standard single-phase applications, set the default (DEFAULT) menu for single-phase (1ØPATCH) operation, with the dimmer phase reference patch set at AAAAAAACCCEEEEEE... The phase patch (Ø-PATCH) menu must be used to configure nonstandard applications.
- Verify the fan inside the CD80 dimmer pack is operating properly. The fan should turn on with between 6-7% DMX (or other) control – when DMX (or other) control drops below 6-7%, there is a 5-minute timeout on the fan to ensure the dimmers have been cooled sufficiently. If required, replacement fans are available (JSI Manufacturing, Part Number: CF-CD80P).

DPC-24/12 Circuit Board

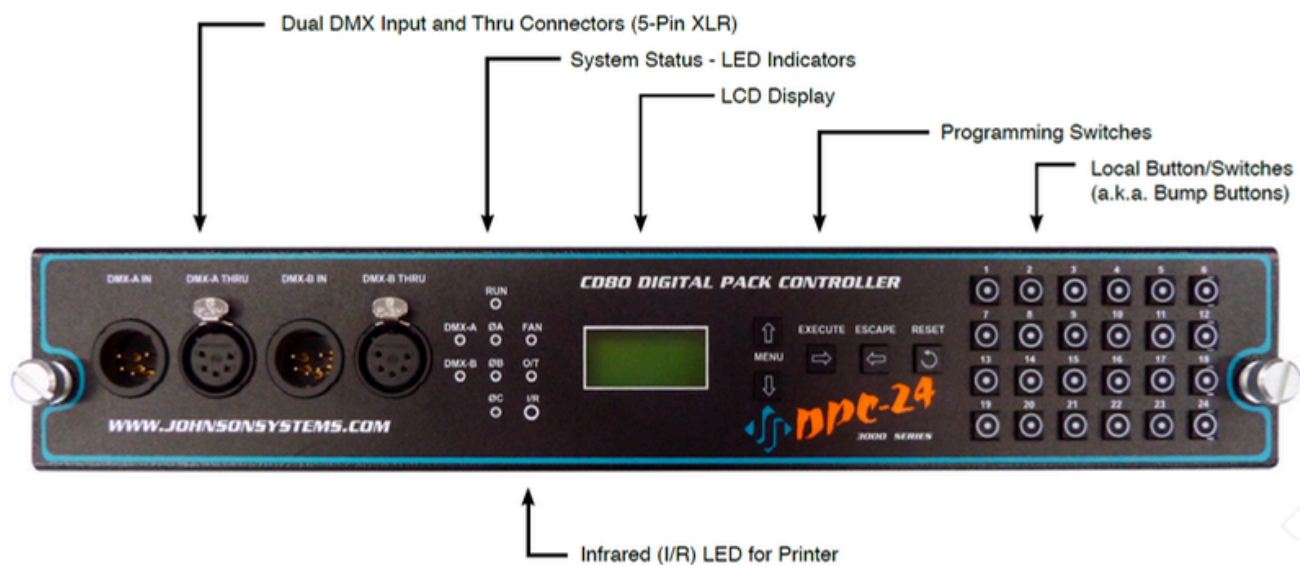
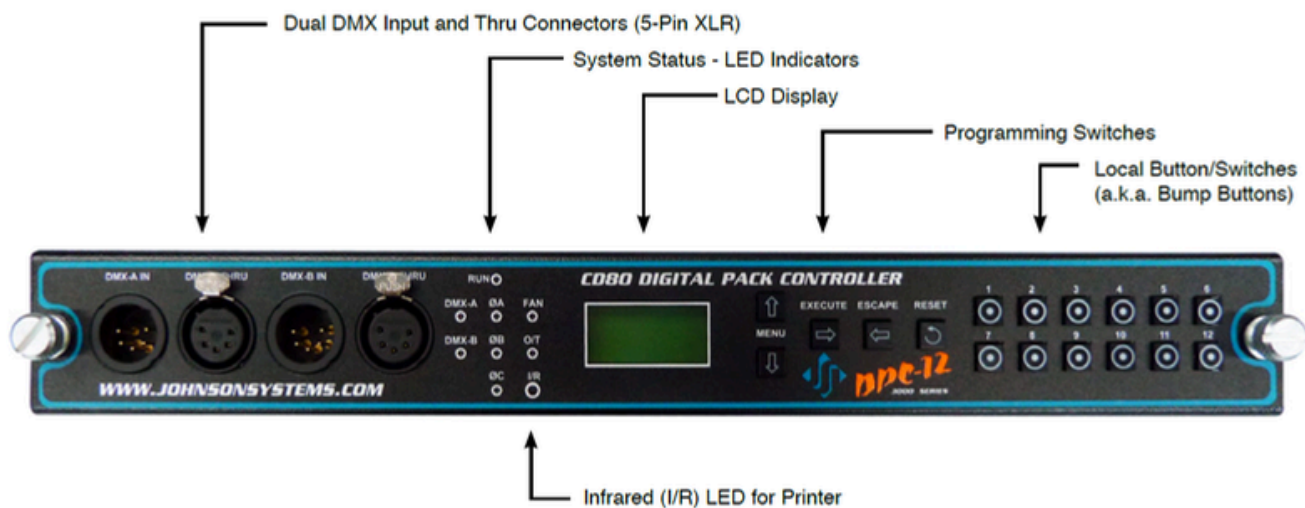
The DPC-24/12 circuit board is the central electronic control system (a.k.a. brain) for DPC-12 and DPC-24 retrofit control modules. The edge connectors (EDGE1, EDGE2, EDGE3 and EDGE5 (for DPC-24 only)) located on the upper edge of the DPC-24/12 circuit board connects with the OEM connectors inside the CD80 dimmer pack.

There are three (3) items of interest located on the DPC-24/12 circuit board:

- Located on the upper left-hand side of the board, there is a removable EEPROM memory module. The EEPROM memory module slides into the PORT1 connector located on the upper left-hand side of the board. The EEPROM memory module is used to backup important configuration settings and may be removed for safe storage. The EEPROM memory module can also be used for firmware updates. Refer to menu items "EEPROM", "FW-LOAD", "RESTORE" and "BACKUP" on page 19, 20 and 21 for further details.
- Located on the upper-central left-hand side of the board, there are two sets of jumpers. If the DMX input is connected internally, on a terminal block mounted inside the CD80 dimmer pack, the jumpers will need to be moved on the DPC-24/12 circuit board to enable the DMX-B input. To enable the internal DMX through the EDGE2 connector on the DPC-24/12 circuit board, move the three (3) jumpers on JP2 to the left-hand side position. To enable the internal DMX through the EDGE3 connector on the DPC-24/12 circuit board, move the three (3) jumpers on JP3 to the left-hand side position.
- Located on the upper right-hand side of the board, there is a fan fuse. The fuse is required for safety and protects the fan control circuitry on the DPC-24/12 circuit board. If the fuse is blown (open), the "FAN" LED illuminates. A blown (open) fuse suggests the fan may be defective and needs to be replaced (JSI Manufacturing, Part Number: CF-CD80P). Replace the fuse with a 2A, 250V, fast-acting, GMA type fuse only!



DPC-12 and DPC-24 Control Module Face Panels



Dual DMX Input and Thru Connectors

DMX Input and Thru 5-Pin XLR Connectors	
PIN	FUNCTION
1	DMX Shield / Common
2	DMX Data-
3	DMX Data+
4	Pass Thru Connection
5	Pass Thru Connection

DPC-12 and DPC-24 control modules are equipped with dual (2) optoisolated DMX inputs. The DMX-A and DMX-B input and thru connectors (5-pin XLR) are located on the front panel of the control module. A built-in DMX protocol manager can be configured for various applications. Refer to menu item "DMX MODE" on page 14 for further details.



NOTE: If DMX is connected internally, on a terminal block mounted inside the CD80 dimmer pack, the DMX-B input is utilized, and the front panel DMX-B input should not be used, or data collision will occur.

- Complies with USITT DMX512-A (ANSI E1.11 - 2008), standard protocol for digital data control.
- Recommended cable is Belden 9829, 9842, Cat 5 or equivalent (lowcapacitance, twisted pair).
- Wiring must follow a daisy-chain topology.
- Maximum of 32 receiving devices on a single DMX line.
- Maximum cable length is 1,500 feet (455 meters).



NOTE: Ensure only the last (end-of-line) DMX receiving device is terminated!

User Interface

DPC-12 and DPC-24 retrofit control modules are equipped with a user interface. The user interface provides access to all programming and configuration settings. System status is easily visible on the LCD display and LED indicators. An infrared (I/R) LED allows for printout of all system configuration settings when used with a handheld infrared printer (JSI Manufacturing, Part Number: JS-IP).

All of the programming is accomplished using four (4) switches. Within a few minutes most users will find the menu structure very intuitive and easy to navigate. All configuration settings are automatically stored in the on-board EEPROM.

LCD Display

The LCD display is capable of displaying 2 lines of 8 characters. A backlight automatically comes on when activity is sensed. The LCD contrast can be easily adjusted for optimum viewing. Refer to menu item "LCD VIEW" on page 22 for further details.

Programming Switches

The MENU UP/DOWN (⬆️) switches are used for navigating through the various system configuration menu items. They also allow for programming of other specific parameters within a selected menu. Pressing and holding either switch will speed up the scroll rate, which can be helpful to speed up the configuration time.

The EXECUTE (➡️) switch is normally used to select/enter a menu item, advance forward within a selected menu item, or toggle between parameters within a selected menu item.

The ESCAPE (⬅️) switch is normally used to back up within a selected menu item one step at a time or exit the menu completely.

The RESET switch has two purposes. First, it allows for quick exit from a menu item after a programming change and automatically puts the system into normal run mode. Second, it provides a soft reboot for the systems microcontroller.

The programming switches are backlit with blue LED's. The LED's automatically turn on when activity is sensed. The LED intensity can be adjusted in the "LED INT" menu. Refer to page 24 for further details.



NOTE: When the DPC-12 or DPC-24 is powered up, the menus are "LOCKED!!" with access only to the basic system configuration menus, which includes setting the DMX start address as well as enabling or disabling the end-of-line DMX termination. The menus need to be "UNLOCKED" to access the advanced system configuration menus. To toggle between "LOCKED!!" and "UNLOCKED" press and hold down the EXECUTE and then ESCAPE switches at the same time for 4-5 seconds.



NOTE: A detailed procedure for programming all system configuration menu items can be found on page 11 to 22.

12 or 24 Local Buttons/Switches

The 12 or 24 local buttons/switches (a.k.a. bump buttons) can be configured for two different modes. They can either be configured as bump buttons or to activate scenes. Refer to menu item "L-BUTTON" on page 17 for configuration details.

The local buttons are backlit with blue LED's. The LED's indicate the approximate control level for each of the 12 or 24 dimmers. As the control level for a dimmer is increased, the intensity of the LED increases.

For a 6 dimmer circuit CD80 pack, button 1 controls and indicates dimmer 1, button 3 controls and indicates dimmer 2, button 5 controls and indicates dimmer 3, button 7 controls and indicates dimmer 4, button 9 controls and indicates dimmer 5 and button 11 controls and indicates dimmer 6.



NOTE: To configure a DPC-12 for 6 PACK (6 dimmer circuit CD80 pack) operation, select 6 PACK in the DEFAULTS menu.

System Status - LED Indicators

RUN (Green)

Illuminates when the power is on and the microcontroller status is in normal run mode. The LED flashes once every 2 seconds when the system is in STANDBY mode.

ØA, ØB and ØC (Green)

Illuminates when the line voltage for each phase is within the acceptable range of 100VAC to 130VAC for 120VAC operation and 200VAC to 260VAC for 240VAC operation, and the zero-cross reference circuitry is functioning properly. The LED will flash slowly (once per second) when an under-voltage is sensed - less than 100VAC for 120VAC operation, and less than 200VAC for 240VAC operation. The LED will flash quickly (twice per second) when an over-voltage is sensed - greater than 130VAC for 120VAC operation, and greater than 260VAC for 240VAC operation.

DMX-A (Yellow)

Illuminates when valid DMX is received on the DMX-A input. Flashes when invalid DMX is received.

DMX-B (Yellow)

Illuminates when valid DMX is received on the DMX-B input. Flashes when invalid DMX is received.

FAN

Illuminates when a blown (open) fan fuse is sensed. A blown (open) fuse suggests the fan may be defective and needs to be replaced (JSI Manufacturing, Part Number: CF-CD80P). Replace the fuse with a 2A, 250V, fast-acting, GMA type fuse only!

O/T

Illuminates and flashes twice per second when an over-temperature is sensed via the OEM thermostat, mounted on the heat-sink inside the CD80 dimmer pack. The thermostat closes when an over-temperature condition of 180°F ±7°F (82°C ±4°C) is reached. All dimmer outputs are disabled, and the fan is turned on to full until the thermostat temperature drops to within specification.

System Status - LCD Display

When DMX is being received, the top line of the LCD display shows the DMX-A start address ("DMXA:001" to "DMXA:512"). When DMX is not being received, the top line of the LCD display shows "DPC-12" or "DPC-24", unless the system is in standby mode, then "STANDBY!" is displayed.

The bottom line of the LCD display shows the current status of the system unless the system configuration menu items are being accessed. Below are descriptions for each status indication.

NO RX!

Displayed when DMX is not being received on either input and the system is not in scene mode.

AXXXBXXX

Displayed when valid DMX is being received on one or both inputs and both inputs are not terminated. "A" and "B" represent the DMX-A and DMX-B inputs while "XXX" represents the number of channels being received in each packet of data. For example, if the system is receiving 512 channels on DMX-B and DMX-A is disconnected, the display will show "A000B512".

T
MXXX **T**
MXXX

Same as above except the "A" and "B" is replaced with "**T**" to indicate if one or both of the DMX inputs are terminated. For example, if the system is receiving 48 channels on DMX-A and 512 channels on DMX-B, with only DMX-A terminated, the display will show "**T**048B512". Refer to menu items "DMXA-TRM" and "DMXB-TERM" on page 12 for further details.

SH XX:YY

Displayed when DMX is disconnected and the systems predetermined DMX status hold (SH) time is counting down. "XX" represents minutes while "YY" represents seconds. Refer to menu item "SH TIME" on page 15 for further details.

INF HOLD

Displayed when DMX is disconnected and the systems predetermined DMX status hold (SH) time is set for infinite (INF) hold. Refer to menu item "SH TIME" on page 15 for further details.

SCENE:XX

Displays the scene (1 to 12 or 24) that is currently activated. Refer to menu item "L-BUTTON" on page 17 for further details.

REM-TEMP

Displayed when the remote over-temp sensor is triggered via the OEM thermostat, mounted on the heat-sink inside the CD80 dimmer pack. The thermostat closes when an over-temperature condition of 180°F ±7°F (82°C ±4°C) is reached. All dimmer outputs are disabled, and the fan is turned on to full until the thermostat temperature drops to within specification.

CTL-TEMP

Displayed when the microcontroller senses an internal over-temperature condition of 185°F (85°C) or more. All dimmer outputs are disabled, and the fans are turned on to full until the temperature cools down to 178°F (81°C) or less. Refer to menu item "CTL TEMP" on page 18 to view the current microcontroller temperature.

Ø ERROR!

Displayed when an error is sensed on any of the input power phases. A phase error can be caused from an under-voltage of less than 100VAC for 120VAC operation and 200VAC for 240VAC operation, an over-voltage of greater than 130VAC for 120VAC operation and 260VAC for 240VAC operation, or if a zero-cross phase reference is not detected.

FAN ERR!

Displayed when a blown (open) fan fuse is sensed. A blown (open) fuse suggests the fan may be defective and needs to be replaced (JSI Manufacturing, Part Number: CF-CD80P). Replace the fuse (located on the DPC-24/12 circuit board) with a 2A, 250V, fast-acting, GMA type fuse only!

RTC ERR!

Displayed when the system detects a runtime counter (RTC) error. This occurs when there is an invalid hard-key code, and the runtime counter is greater than 2160 hours (90 days). Refer to menu item "HARD-KEY" on page 18 for further details.

LOCKED!!

When the DPC-12 or DPC-24 is powered up, the menus are "LOCKED!!" with access only to the basic system configuration menus, which includes setting the DMX start address as well as enabling or disabling the end-of-line DMX termination. The menus need to be "UNLOCKED" to access the advanced system configuration menus. To toggle between "LOCKED!!" and "UNLOCKED" press and hold down the EXECUTE and then ESCAPE switches at the same time for 4-5 seconds.

Quick Programming Reference

Basic Menus

- | | |
|-------------|---|
| 1. ADDRESS | Set the DMX start address. |
| 2. DMXA-TRM | Enable or disable termination on the DMX-A input. |
| 3. DMXB-TRM | Enable or disable termination on the DMX-B input. |

Advanced Menus

- | | |
|--------------|---|
| 4. SCENESET | Enable and setup 12 or 24 different backup scenes. |
| 5. FADETIME | Set the fade time for each of the 12 or 24 scenes from 0 to 99 seconds. |
| 6. SNAPSHOT | Record DMX levels into the backup scenes. |
| 7. DIM TEST | Test the dimmer outputs one at a time, or all at once. |
| 8. MONITOR | View the control level to each dimmer output. |
| 9. DMX MODE | Configure the mode of the on-board DMX protocol manager. |
| 10. 2 RM SET | Set the two-room assignment for each of the dimmer outputs. |
| 11. SH TIME | Set the DMX status hold time from 0 to 99 minutes or infinite. |
| 12. DC PATCH | Configure the dimmer to channel patch for the dimmer pack. |
| 13. DIM CURV | Configure the dimmer curve for each output. |
| 14. VOUT LIM | Set the maximum RMS output voltage for each dimmer. |
| 15. REGULATE | Enable or disable the dimmer output voltage regulation. |
| 16. STANDBY | Enable or disable the power savings standby mode. |
| 17. TEST INC | Set the test increment units to percent or hexadecimal. |
| 18. L-BUTTON | Set the mode of the 12 or 24 local buttons to scene, bump or disabled. |
| 19. Ø-PATCH | Set the zero-cross phase reference for each dimmer control output circuit. |
| 20. V-RANGE | Set the supply voltage range for 120 Volts or 240 Volts operation. |
| 21. LINE V | View the RMS line voltage for each power phase. |
| 22. LINE F | View the line frequency of phase A. |
| 23. CTL TEMP | View the temperature of the microcontroller. |
| 24. RTIME | View the total run time of the microcontroller. |
| 25. HARD-KEY | View the microcontroller's unique six-character hard-key code. |
| 26. SERIAL# | View the microcontroller's unique six-character silicone serial number. |
| 27. VERSION | View the microcontroller's firmware version. |
| 28. EEPROM | View the type of EEPROM memory module plugged in. |
| 29. FW-LOAD | Load new firmware into the microcontroller via the EEPROM memory module. |
| 30. RESTORE | Restore parameters saved in the EEPROM memory module. |
| 31. BACKUP | Backup parameters and save them in the EEPROM memory module. |
| 32. PRINTOUT | Print various system configuration settings using a hand-held infrared printer. |
| 33. DEFAULTS | Set various system configuration settings to the factory default. |
| 34. LED INT | Set the LED intensity for the programming switches. |
| 35. LCD VIEW | Adjust the contrast of the LCD Display for optimum viewing. |

Detailed Programming



NOTE: When the DPC-12 or DPC-24 is powered up, the menus are "LOCKED!!" with access only to the basic system configuration menus, which includes setting the DMX start address as well as enabling or disabling the end-of-line DMX termination. The menus need to be "UNLOCKED" to access the advanced system configuration menus. To toggle between "LOCKED!!" and "UNLOCKED" press and hold down the EXECUTE and then ESCAPE switches at the same time for 4-5 seconds.

The sequence of the following system configuration menu items appear as the MENU DOWN (↓) switch is pressed. Pressing the MENU UP (↑) switch will sequence the system configuration menu items in the opposite order. Pressing and holding either of the MENU UP/DOWN (↕) switches will speed up the scroll rate, which can be helpful to speed up the configuration time.

Basic Menus

1. ADDRESS

DMXA>001
DMXA>512
DMXA>001
DMXA>025
DMXB>001
DMXB>512
#CHA=>01
#CHA=>24

Set the DMX start address.

The DMX start address can be assigned from 001 to 512 and is common to both DMX inputs. When DMX MODE is set for DMX A+B operation, each of the DMX inputs can be assigned to a separate DMX start address. The DMX inputs are merged, and DMX-B is offset by the number of DMX-A channels.

Press EXECUTE to enter the menu.

Displays the current DMX start address for both DMX inputs.

Press MENU (↕) to modify and select the desired DMX start address.

Press both MENU (↕) simultaneously to toggle to DMX start address 001.

Press EXECUTE to save the selected DMX start address.

*Press EXECUTE to advance to select the DMX-B start address.

*Press MENU (↕) to modify and select the desired DMX start address.

*Press EXECUTE to advance to select the number of DMX-A channels.

*Press MENU (↕) to modify the number of DMX-A channels from 01 to 24.

Press ESCAPE to exit the menu and save the selected DMX start address.

Press RESET to exit the menu without saving.

The menu will automatically timeout after 2 minutes of inactivity and save.



NOTE: * DMX MODE must be set for DMX A+B operation to access this feature.

2. DMXA-TRM

ENABLED
DISABLED

Enable or disable termination on the DMX-A input.

Activates and deactivates a 120Ω termination resistor. DMX termination is indicated on the LCD display when DMX is being received. When the DMX-A input is not terminated (DISABLED) the LCD display will read AXXXBXXX. When the DMX-A input is terminated (ENABLED) the LCD display will read TMXXXBXXX.

Press EXECUTE to toggle termination from ENABLED to DISABLED.

Press EXECUTE to toggle termination from DISABLED to ENABLED.

Any change in the configuration is automatically saved.



NOTE: * DMX MODE must be set for DMX A+B operation to access this feature.

3. DMXB-TRM

Enable or disable termination on the DMX-B input.

Activates and deactivates a 120Ω termination resistor. DMX termination is indicated on the LCD display when DMX is being received. When the DMX-B input is not terminated (DISABLED) the LCD display will read AXXXBXXX. When the DMX-B input is terminated (ENABLED) the LCD display will read AXXXTMXXX.



ENABLED
DISABLED

Press EXECUTE to toggle termination from ENABLED to DISABLED.
Press EXECUTE to toggle termination from DISABLED to ENABLED.
Any change in the configuration is automatically saved.

Advanced Menus

4. SCENESET

SCENE>01
SCENE>24
CTRL: ON
CTRL:DMX
CTRL:HLD
CTRL:INF
SCENE>24
SCENE:24
SCENE:24
SCENE>24
SCENE 24
C>01L 00
C>24L 00
C 24L>00
C>24L 00
C 24L>FL
CLEAR???
SURE ???
DONE !!!
WAIT...

Enable and setup 12 or 24 different backup scenes.
When scene mode (SCENESET) is activated, the selected scene will be held with no timeout until the menu is exited. The 12 or 24 local buttons (L-BUTTON) are automatically set for SCENE mode and can be used to activate scenes. The 12 or 24 control channel levels are configured within the menu and can be modified on the fly. Scene mode is useful when an external controller is not available and independent internal control is required.
Press EXECUTE to enter the menu and activate scene mode.
Displays the scene (01) to be activated.
Press MENU () to select a different scene from 01 to 12 or 24.
Control (CTRL) is ON via the selected scene.
Control (CTRL) is via DMX and takes priority over scene mode.
Control (CTRL) is via DMX status hold (HLD) and takes priority over scene mode.
Control (CTRL) is via DMX status hold (INF) and takes priority over scene mode.
Press EXECUTE to activate the selected scene.
The colon (:) flashes twice per second while fading to the selected scene.
The colon (:) stops flashing when fade is complete and the selected scene is active.
Press MENU () to select a different scene from 01 to 12 or 24.
Press EXECUTE to modify the selected scene.
The second line on the LCD indicates the control channel (C) and level (L).
Press MENU () to select the control channel (C) to modify from 01 to 12 or 24.
Press EXECUTE to toggle from channel (C>) to level (L>) selection.
Press ESCAPE to toggle from level (L>) to channel (C>) selection.
Press MENU () to select the output level (L) for the selected channel from 00 to FL.
Press EXECUTE to clear the selected preset and set all channels to 00 level.
Press EXECUTE if you are sure to clear the selected preset.
Indicates the selected preset has been cleared.
Press ESCAPE to exit and the menu and save programmed scene levels.
Press ESCAPE to back-up within the menu, or exit/deactivate scene mode.
Press RESET to exit scene mode without saving programmed scene levels.



NOTE: When scene mode is activated, DMX and DMX status hold (SH-TIME) automatically takes precedence over scene mode. Scene mode will only activate dimmers assigned to room "A".

5. FADETIME

S>01T 05
S>24T 05
S 24T>05
S 24T>99

Set the fade time for each of the 12 or 24 scenes from 0 to 99 seconds.
The factory default is 5 seconds for all 12 or 24 scenes.
Press EXECUTE to enter the menu.
Displays the scene (S>01) and assigned fade time (T 05).
Press MENU () to select a different scene from 01 to 12 or 24.
Press EXECUTE to toggle between scene (S>) and fade time (T>) selection.
Press MENU () to select a different fade time from 00 to 99 seconds.
Press ESCAPE to exit the menu and save the selected fade time.
Press RESET to exit the menu without saving.
The menu will automatically timeout after 2 minutes of inactivity and save.

6. SNAPSHOT

SAVE >01
SCENE>24
SURE ???
DONE !!!
NO RX!

Record DMX levels into the backup scenes.
Provides a quick and easy way to save control channel levels into each of the 01 to 12 or 24 backup scenes using a DMX source.
Press EXECUTE to enter the menu and activate snapshot mode.
Press MENU (⚡) to select a different scene from 01 to 12 or 24.
Press EXECUTE to store DMX levels in the selected scene.
Press EXECUTE if you are sure the DMX levels are set as intended.
DMX levels have now been saved in the selected scene.
DMX is not being received on either input, so a snapshot is not possible.
Press ESCAPE to back-up within the menu, or exit/deactivate snapshot mode.
Press RESET to exit/deactivate snapshot mode.

7. DIM TEST

D 01L>00
D 01L>50
D 01L>FF
D>01L FF
D>ALL FF

Test the dimmer outputs one at a time, or all at once.
A technician's best friend! Used for troubleshooting the dimmer outputs and field wiring to the load.
Press EXECUTE to enter the menu and activate dimmer test mode.
Displays the active dimmer (D) and the test level (L).
Press MENU (⚡) to select the desired test level.
Press ESCAPE to toggle the test level from full-on (FF) and off (00).
Press EXECUTE to toggle between the dimmer (D>) and the test level (L>).
Press MENU (⚡) to select the active dimmer from 01 to 12 or 24 or ALL.
Press ESCAPE or RESET to exit the menu.
The menu will automatically timeout after 2 minutes of inactivity.

8. MONITOR

D>01L000
D>24L512

View the control level to each dimmer output.
The dimmer control level is displayed as a 9-bit value from 000 to 512.
This menu does not timeout automatically and will continue to monitor indefinitely.
Press EXECUTE to enter the menu and activate monitor mode.
Press MENU (⚡) to select the dimmer (D) output to monitor from 01 to 12 or 24.
Display shows dimmer 24 has full-on control.
Press ESCAPE or RESET to exit the menu.



NOTE: The control level value will not reach 512 when voltage output limiting is activated, or when regulation is enabled and the line voltage is greater than 118VAC for 120VAC operation or 236VAC for 240VAC operation.

9. DMX MODE

Configure the mode of the on-board DMX protocol manager.
There are five different mode settings for the DMX protocol manager.
Priority A (PTY A) and Priority B (PTY B) modes are intended for the implementation of a backup DMX source. Priority A (PTY A) sets the DMX-A input as the priority and ignores the DMX-B input when the DMX-A input is active. Priority B (PTY B) sets the DMX-B input as the priority and ignores the DMX-A input when the DMX-B input is active.
Merge (MERGE) mode combines both DMX inputs with highest-takes-precedence (HTP) operation. Merge mode allows for simultaneous DMX control of the dimmers from both inputs and is the default for the system.
Dual Universe DMX (DMX A+B) mode provides a method to combine two universes of DMX within one system. It permits two independent DMX sources to be active on the DMX inputs, with each having a separate DMX start address.

PTY A	Press EXECUTE to toggle into Priority A (PTY A) mode.
PTY B	Press EXECUTE to toggle into Priority B (PTY B) mode.
MERGE	Press EXECUTE to toggle into Merge (MERGE) mode.
DMX A+B	Press EXECUTE to toggle into Dual Universe DMX (DMX A+B) mode.
2 ROOM	Press EXECUTE to toggle into Two Room (2 ROOM) mode.
	Press ESCAPE or RESET to exit the menu.
	Any change in the configuration is automatically saved.

10. 2 RM SET

	Set the two-room assignment for each of the dimmer outputs.
	This menu is used to assign each of the 12 or 24 dimmer outputs to room "A" or room "B". Dimmer outputs assigned to room "A" are controlled via the DMX-A input. Dimmer outputs assigned to room "B" are controlled via the DMX-B input. This creates separation within the dimmer rack and makes a single dimmer rack function as though it is two independent dimmer racks. When used in conjunction with the DC PATCH menu, the dimmer rack can be configured for sequential DMX control of two rooms, even if the dimmer room assignments are not sequential.
	DMX MODE must be set for 2 ROOM operation for this menu to function.
	Press EXECUTE to enter the menu and activate 2 RM SET mode.
DIM 01 A	Displays the dimmer (DIM) output (01) and the room assignment (A).
DIM 24 A	Press MENU (↕) to select a different dimmer output from 01 to 12 or 24.
DIM 24 B	Press EXECUTE to toggle the room assignment from A to B.
	Press ESCAPE or RESET to exit the menu.
	Any change in the configuration is automatically saved.



NOTE: Scene mode (SCENESET) will only activate/control dimmers assigned to room "A".

11. SH TIME

	Set the DMX status hold time from 0 to 99 minutes or infinite.
	When DMX is disconnected the system will hold the status of the last received DMX levels for the selected amount of time. When activated, the LCD display shows a countdown of the status hold time or infinite hold.
	Press EXECUTE to enter the menu.
HTIME 00	Displays the current DMX status hold time (HTIME) setting.
HTIME 99	Press MENU (↕) to set the desired hold time from 00 to 99 minutes.
HTIME XX	Press MENU (↕) to set the desired hold time to infinite (XX).
HTIME 00	Press both MENU (↕) switches to toggle back to status hold time of 00.
	Press ESCAPE to exit the menu and save the desired DMX status hold time.
	Press RESET to exit the menu without saving.
	The menu will automatically timeout after 2 minutes of inactivity and save.

12. DC PATCH

	Configure the dimmer to channel patch for the dimmer pack.
	Each of the 12 or 24 dimmer (PWM) outputs can be assigned and patched to any of the 12 or 24 control channels. Multiple dimmer outputs may be patched to a single control channel. The dimmer to channel patch is used by other menu features to provide transparent control of the dimmer output circuits. DPC-12 and DPC-24 control modules are typically patched for 1 to 1 operation but may be altered for custom applications.
	Press EXECUTE to enter the menu.
D01<C01	Displays the dimmer (D) output (01) and its current control channel (C) patch (01).
D24<C24	Press MENU (↕) to select the desired dimmer output from 01 to 12 or 24.
D24 C24<	Press EXECUTE to toggle the pointer (<) to select the control channel to patch.
D24 C01<	Press MENU (↕) to select the desired control channel from 01 to 12 or 24.

D24<C01

Press EXECUTE to toggle the pointer (<) to select another dimmer output.
 Press ESCAPE to exit the menu and save the desired dimmer channel patch.
 Press RESET to exit the menu without saving.
 The menu will automatically timeout after 2 minutes of inactivity and save.

13. DIM CURV

Configure the dimmer curve for each output.
 There are four different dimmer curve profiles that can be assigned to each individual dimmer output circuit. Square Law (SQ) curve is the industry standard and the default for all dimmers. Linear (LN) curve modifies the dimmer output for a linear relationship to the control input level. Direct Drive (DD) curve is not modified - meaning the control input level is directly proportional to the control output level. Non-Dim (ND) curve assigns the dimmer circuit to operate in a full-on or off state only, with no dimming. Dimmers set for non-dim will be triggered full-on at 55% control input and will be triggered off again at 45% control input.
 Press EXECUTE to enter the menu.
 Displays the dimmer (DIM) output (O1) and its current dimmer curve.
 Press MENU (↕) to select the desired dimmer number from 01 to 12 or 24.
 Press EXECUTE to toggle to linear (LN) curve mode.
 Press EXECUTE to toggle to direct drive (DD) mode.
 Press EXECUTE to toggle to non-dim (ND) mode.
 Press ESCAPE to exit the menu and save the desired dimmer curves.
 Press RESET to exit the menu without saving.
 The menu will automatically timeout after 2 minutes of inactivity and save.

DIM01 SQ
 DIM24 SQ
 DIM24 LN
 DIM24 DD
 DIM24 ND

14. VOUT LIM

Set the maximum RMS output voltage for each dimmer.
 Limiting the maximum RMS voltage can greatly improve lamp life.
 Press EXECUTE to enter the menu.
 Displays the dimmer (O1) and its current maximum output voltage level (127.5).
 Press MENU (↕) to select the desired dimmer number from 01 to 12 or 24.
 Press EXECUTE to toggle the pointer (< >) to select the output voltage level.
 Press MENU (↕) to adjust the output voltage level in 0.5 Volt increments.
 Press EXECUTE to toggle the pointer (< >) to select another dimmer number.
 Press ESCAPE to exit the menu and save the desired dimmer curves.
 Press RESET to exit the menu without saving.
 The menu will automatically timeout after 2 minutes of inactivity and save.

01<127.5
 24<127.5
 24>127.5
 24>100.0
 24<100.0



NOTE: For 240VAC operation, the maximum output voltage level is 255 and the output voltage limit is adjusted in 1 Volt increments.

15. REGULATE

Configure the dimmer to channel patch for the dimmer rack.
 With the on-board output voltage regulation feature enabled, the maximum RMS output is limited to 118 Volts for 120VAC operation and 236 Volts for 240VAC operation. Voltage regulation automatically adjusts the internal control level to compensate for any line voltage fluctuations.
 Press EXECUTE to toggle regulation from ENABLED to DISABLED.
 Press EXECUTE to toggle regulation from DISABLED to ENABLED.
 Any change in the configuration is automatically saved.

ENABLED
 DISABLED

16. STANDBY

Enable or disable the power savings standby mode.
 When standby mode is enabled, the microcontroller goes to sleep within 5 seconds of inactivity on the control inputs. The microcontroller wakes up again when a programming switch is pressed or when control is sensed on the control inputs.
 Press EXECUTE to toggle standby mode from ENABLED to DISABLED.
 Press EXECUTE to toggle standby mode from DISABLED to ENABLED.
 Any change in the configuration is automatically saved.

ENABLED
 DISABLED

17. TEST INC

Set the test increment units to percent or hexadecimal.

The level for the dimmer test (DIM TEST) menu can be displayed as a percentage or hexadecimal value.

PERCENT

Press EXECUTE to toggle test increments from PERCENT to HEX VAL.

HEX VAL

Press EXECUTE to toggle test increments from HEX VAL to PERCENT.

Any change in the configuration is automatically saved.

18. L-BUTTON

Set the mode of the 12 or 24 local buttons to scene, bump or disabled.

The DPC-12 is equipped with 12 local buttons/switches, while the DPC-24 is equipped with 24 local buttons/switches. The mode for the local buttons can be configured for "BUMP", "SCENE" or "DISABLED".

Setting the local buttons for "BUMP" mode (factory default setting) enables the use of the local buttons as bump buttons. When a bump button is pressed, the corresponding dimmer output toggles (alternate action, push on/push off) between full on and off. If DMX is being received or DMX status hold is active on that channel, the dimmer output level is HTP (Highest Takes Precedence). For example, if DMX is received on channel 1 at 50%, bump button 1 toggles the dimmer output level between 50% and full on. For a 6 dimmer circuit CD80 pack, bump button 1 controls dimmer 1, bump button 3 controls dimmer 2, bump button 5 controls dimmer 3, bump button 7 controls dimmer 4, bump button 9 controls dimmer 5 and bump button 11 controls dimmer 6.

Setting the local buttons for "SCENE" mode puts the system in scene mode. With scene mode enabled the selected scene will always automatically be activated when DMX is not being received or when DMX status hold is not active. The local buttons are used to select a scene from 1 to 12 or 24.

When the local buttons are "DISABLED", nothing happens when a button is pressed. The local buttons are backlit with blue LED's. The LED's indicate the approximate control level for each of the 12 or 24 dimmers. As the control level for a dimmer is increased, the intensity of the LED increases.

BUMP

Press EXECUTE to toggle the operation of the local buttons to bump mode.

SCENE

Press EXECUTE to toggle the operation of the local buttons to scene mode.

DISABLED

Press EXECUTE to toggle the operation of the local buttons to disabled.

Any change in the configuration is automatically saved.

19. Ø-PATCH

Set the zero-cross phase reference for each dimmer control output circuit.

The defaults (DEFAULTS) menu is normally used to configure the phase patch for DPC-12 and DPC-24 control modules. This menu provides custom phase patching for non-standard applications.

If a dimmer control output is patched to the incorrect phase reference, the dimmer will not dim correctly and will go to full output at around 1% DMX input.

Press EXECUTE to enter the menu and configure the dimmer phase patch.

CH 01 ØA

Displays the dimmer output channel (CH 01) and patched phase (ØA).

CH 24 ØC

Press MENU (↕) to change the dimmer output channel to patch from 01 to 12 or 24.

CH 24 ØA

Press EXECUTE to toggle the patch to Phase A (ØA).

CH 24 ØB

Press EXECUTE to toggle the patch to Phase B (ØB).

CH 24 ØC

Press EXECUTE to toggle the patch to Phase C (ØC).

Press ESCAPE to exit the menu and save the desired settings.

Press RESET to exit the menu without saving.

The menu will automatically timeout after 2 minutes of inactivity and save.

20. V-RANGE

120 VOLT
240 VOLT

Set the supply voltage range for 120 Volts or 240 Volts operation.
DPC-12 and DPC-24 retrofit control modules are capable of operating with most common AC supply voltages. The default is for 120 Volts operation. This menu must be set for 240 Volts operation when the supply voltage is between 210VAC and 250VAC.
Press EXECUTE to toggle from 120 Volts to 240 Volts operation.
Press EXECUTE to toggle from 240 Volts to 120 Volts operation.
Press ESCAPE or RESET to exit the menu.
Any change in the configuration is automatically saved.

21. LINE V

ØA=120.0
ØB=120.0
ØC=120.0

View the RMS line voltage for each power phase.
Press EXECUTE to enter the menu and view the line voltage of each phase.
Shows the line voltage of Phase A.
Press MENU (↕) to view the line voltage of Phase B.
Press MENU (↕) to view the line voltage of Phase C.
Press ESCAPE or RESET to exit the menu.

22. LINE F

60.0 Hz

View the line frequency of phase A.
Shows the frequency of phase A.

23. CTL TEMP

+91°F
+33°C

View the temperature of the microcontroller.
Shows the temperature in degrees Fahrenheit.
Press EXECUTE to toggle units between degrees Fahrenheit and Celsius.

24. RTIME

RTIME SS
HHHHH:MM

View the total run time of the microcontroller.
The run time counter keeps track of the total time the microcontroller is powered up. The maximum time is 99999 hours, 59 minutes, 59 seconds, or about 11.4 years. System operation is not affected when the maximum run time is reached and can be reset to zero at the factory.
Shows the number of seconds (SS) of run time.
Shows the number of hours (HHHHH) and minutes (MM) of run time.

25. HARD-KEY

HARD-KEY
HARD KEY
K:XXXXXX
K:XXXXXX
K:XXXXXX
K>XXXXXX
K>XXXXXX
K>XXXXX
K>XXXXX
K:X>XXXX
K:X>XXXX
K:XX>XXX
K:XX>XXX
K:XXX>XX

View the microcontroller's unique six-character hard-key code.
DPC-12 and DPC-24 control modules may be shipped with an invalid hard-key code of 000000. A valid hard-key must be entered before the run time (RTIME) counter reaches 2160 hours / 90 days. If the run time expires without a valid hard-key the LCD display will show a runtime counter error (RTC ERR!) and all dimmer control outputs will be disabled.
A dash (-) between hard and key represents a valid hard-key.
A blank space between hard and key represents an invalid hard-key.
Shows the unique six-character hard-key code (XXXXXX).
Follow the procedure below to enter the menu and modify the hard-key.
Press and hold EXECUTE and then ESCAPE at the same time for 4-5 seconds.
A pointer (>) appears to indicate hard-key modification is activated.
Press MENU (↕) to modify the first hard-key character.
Press EXECUTE to advance to the second hard-key character.
Press MENU (↕) to modify the second hard-key character.
Press EXECUTE to advance to the third hard-key character.
Press MENU (↕) to modify the third hard-key character.
Press EXECUTE to advance to the fourth hard-key character.
Press MENU (↕) to modify the fourth hard-key character.
Press EXECUTE to advance to the fifth hard-key character.

K:XXX>XX
K:XXXX>X
K:XXXX>X

Press MENU (↵) to modify the fifth hard-key character.
Press EXECUTE to advance to the sixth hard-key character.
Press MENU (↵) to modify the sixth hard-key character.
Press ESCAPE to exit the menu and save the desired hard-key code.
Press RESET to exit the menu without saving.
The menu will automatically timeout after 2 minutes of inactivity and save.



NOTE: Be sure to record and file the hard-key code on page 23 for future reference.

26. SERIAL#

XXXXXX

View the microcontroller's unique six-character silicone serial number.
Shows the unique six-character serial number.

27. VERSION

VER X.X

View the microcontroller's software version.
Shows the microcontroller's software version.

28. EEPROM

DPC-12-P
DPC-24-P
DPC-24-P
XXXXXX
DISABLED
DPC-24-F
VER X.X
DISABLED
NONE!

View the type of EEPROM memory module plugged in.
All DPC-12 and DPC-24 control modules are equipped with a removable EEPROM memory module. The EEPROM memory module inserts into the PORT1 connector located on the upper left-hand side of the board and may be removed for safe storage.
The EEPROM type is programmed for parameter (P) or firmware (F) operation. A parameter EEPROM is used to backup all of the current configuration settings. A firmware EEPROM is used to update the current firmware version running on the DPC-24/12 microcontroller to the firmware version saved on the EEPROM.
The EEPROM memory module supplied with all DPC-12 and DPC-24 control modules is a parameter type with all of the factory default configuration settings saved onto it before shipping.
Indicates the EEPROM memory module is for a DPC-12 microcontroller.
Indicates the EEPROM memory module is for a DPC-24 microcontroller.
Indicates the EEPROM type is programmed for parameter (P) operation.
Press EXECUTE to display the silicone serial number parameter.
Press EXECUTE and menu feature is disabled for factory use only.
Indicates the EEPROM type is programmed for firmware (F) operation.
Press EXECUTE to display the version (VER) of the firmware.
Press EXECUTE and menu feature is disabled for factory use only.
Indicates the EEPROM memory module is not installed.

29. FW-LOAD

DISABLED
ENABLED
MEMCHECK
CRC-TEST
>>>>>>>
VER X.X
UPDATE??
SURE ???
UPDATING

Load new firmware into the microcontroller via the EEPROM memory module.
If a firmware update is required, JSI Manufacturing may supply an EEPROM memory module with the latest firmware version. The firmware EEPROM memory module can be inserted into PORT1 connector located on the upper left-hand side of the board, and the firmware can be loaded into the microcontroller.
Press EXECUTE to enter the menu.
This menu is disabled to help prevent inadvertent changes. Proceed to enable.
Press and hold MENU (↵) and MENU (↵) at the same time for 4-5 seconds.
Automatically checks the EEPROM memory module for firmware type.
Automatically does a CRC test on the firmware code in the EEPROM.
CRC test in progress.
Displays the firmware version on the EEPROM memory module.
Press EXECUTE to proceed.
Press EXECUTE to proceed.
Firmware update in progress.

WILL	Firmware update in progress.
AUTO	Firmware update in progress.
RESTART	Firmware update in progress.
PLEASE	Firmware update in progress.
WAIT...	When firmware update is complete the RUN LED flashes and system restarts.
NO MEM!	Displayed if an EEPROM memory module is not detected.
WRONG MEM TYPE	Displayed if the wrong type (parameter) of EEPROM memory module detected.
WRONG PRODUCT	Displayed if the wrong product type of EEPROM memory module detected.
CRC ERR!	Displayed if the CRC test fails and the EEPROM memory module is defective.



WARNING: Do not reset or turn the power off while the firmware is being updated. Doing so will cause unrecoverable loss of firmware data that is being loaded into the DPC-24/12 microcontroller.

30. RESTORE

Restore parameters saved in the EEPROM memory module.

All of the configuration setting parameters can be restored from an EEPROM memory module if they have been inadvertently changed or corrupted. This feature can also be used to load configuration setting parameters into a different or new control module. This reduces the configuration time for multi-system applications that require similar settings or when a replacement control module is required.

Press EXECUTE to enter the menu.

DISABLED	This menu is disabled to help prevent inadvertent changes. Proceed to enable.
ENABLED	Press and hold MENU (▲) and MENU (▼) at the same time for 4-5 seconds.
MEMCHECK	Automatically checks the EEPROM memory module for parameter type.
OKAY...	The EEPROM memory module has been verified for parameter type.
PROCEED?	Press EXECUTE to proceed.
SURE ???	Press EXECUTE to proceed.
CRC-TEST	Automatically does a CRC test on the parameter code in the EEPROM.
WAIT	CRC test in progress.
VERIFY	CRC test in progress.
DONE!!	CRC test is done and the parameter restore automatically begins.
WILL	Parameter restore in progress.
AUTO	Parameter restore in progress.
RESTART	When parameter restore is complete, the system restarts.
SERIAL #	Displayed when the silicone serial number on the EEPROM memory module is a mismatch with the silicone serial number on the DPC-24/12 microcontroller.
PROCEED?	Press EXECUTE to proceed.
NO MEM!	Displayed if an EEPROM memory module is not detected.
WRONG MEM TYPE	Displayed if the wrong type (parameter) of EEPROM memory module detected.
WRONG PRODUCT	Displayed if the wrong product type of EEPROM memory module detected.
ERROR	Displayed when an error occurs. Waits for key press to restart RESTORE.

31. BACKUP

DISABLED
ENABLED
MEMCHECK
SURE ???
WAIT
VERIFY
DONE!!
NO MEM!
WRONG MEM TYPE
WRONG PRODUCT
DATA ERR

Backup parameters and save them in the EEPROM memory module.

All of the configuration setting parameters can be saved in the EEPROM memory module for backup. The backup parameters can then be restored if they have been inadvertently changed or corrupted. Once backup is complete the EEPROM memory module may be removed for safe storage. All DPC-12 and DPC-24 control modules are shipped with the factory default settings saved in the EEPROM memory module.

Press EXECUTE to enter the menu.

This menu is disabled for inadvertent use. Proceed to enable.

Press and hold MENU (▲) and MENU (▼) at the same time for 4-5 seconds.

Automatically checks the EEPROM memory module for parameter type.

Press EXECUTE to proceed.

Automatically begins parameter backup and generates CRC value.

Automatically verifies parameter backup data and CRC value.

Parameter backup is done and saved in the EEPROM memory module.

Displayed if an EEPROM memory module is not detected.

Displayed if the wrong type (parameter) of EEPROM memory module detected.

Displayed if the wrong product type of EEPROM memory module detected.

Displayed when a data error occurs. Waits for key press to restart BACKUP.



NOTE: Be sure to BACKUP the DPC-12 or DPC-24 when installation configuration is complete.

32. PRINTOUT

SYSTEM?
V-LIMIT?
CURVES?
Ø-PATCH?
DCPATCH?
SCENE>FL
SCENE?
SCENE>01
FD-TIME?
2 ROOM?
ALL?
PRINTING

Print various system configuration settings using a handheld infrared printer.

All DPC-12 and DPC-24 control modules come equipped with an infrared (I/R) LED that provides the ability to printout all the system configuration settings, when used in conjunction with a handheld infrared printer (JSI Manufacturing, Part Number: JS-IP). Point the handheld printer I/R LED directly at the DPC-12 or DPC-24 control module I/R LED within 3 ft (1m).

Press EXECUTE to enter the menu.

Press MENU (◆) to scroll through and select which item(s) to printout.

Prints general system information and configuration settings.

Prints the output voltage limit settings for each of the 12 or 24 dimmer outputs.

Prints the dimmer curves for all 12 or 24 dimmer outputs.

Prints the phase patch for all 12 or 24 dimmer outputs.

Prints the configuration settings for the dimmer to channel patch.

Press MENU (◆) to select the desired scene (01 to 12 or 24) or all scenes (FL).

Prints the level settings for each dimmer output within the 12 or 24 scenes.

Press EXECUTE to toggle the pointer (>) and select which scene to print.

Prints the fade time settings for each of the 12 or 24 scenes.

Prints the two-room assignment for each of the 12 or 24 dimmer outputs.

Printout all items at once.

Press EXECUTE on any item to begin printing.

Press ESCAPE or RESET to exit the menu.

33. DEFAULTS

3ØPATCH?
1ØPATCH?
CURVES?
V-LIMIT?
FD-TIME?
2 ROOM?
D-PATCH?
12 PACK?
6 PACK?
SURE???
DONE!!!

Set various system configuration settings to the factory default.
Press EXECUTE to enter the menu.
Press MENU (↕) to scroll through and select which item(s) to default.
Sets the dimmer phase patch to AAAABBBBCCCC. This is the default setting.
Sets the dimmer phase patch to AAAAAACCCCCC.
Sets all 12 or 24 dimmer curve profiles to Square Law curve.
Sets the output voltage limit to full (127.5 or 255) on all 12 or 24 dimmer outputs.
Sets the fade time at 5 seconds for all 12 or 24 scenes.
Sets the two-room assignment to room "A" on all 12 or 24 dimmer outputs.
*Clears the dimmer to channel patch and configures it for 1:1 operation.
**Clears the DC-PATCH and configures it for 1:1 operation for 12 dimmers.
**Clears the DC-PATCH and configures it for 1:1 operation for 6 dimmers.
Press EXECUTE to select the item to default. Are you sure?
Press EXECUTE to set the selected default.
Press ESCAPE or RESET to exit the menu.



NOTE: * Applies to the DPC-24 only. ** Applies to the DPC-12 only, and provides a quick way to configure the control module for sequential DMX control of either a 12 or 6 dimmer circuit CD80 pack. When a DPC-12 is configured for controlling a 6 dimmer circuit CD80 pack, local button LED's 1 and 2 indicate control for dimmer 1, local button LED's 3 and 4 indicate control for dimmer 2, local button LED's 5 and 6 indicate control for dimmer 3, local button LED's 7 and 8 indicate control for dimmer 4, local button LED's 9 and 10 indicate control for dimmer 6 and local button LED's 11 and 12 indicate control for dimmer 6.

34. LED INT

LEV:100%
LEV:050%

Set the LED intensity for the programming switches.
Press EXECUTE to enter the menu.
Press MENU (↕) to adjust the LED intensity from 0% to 100%.
Press MENU (↑) and MENU (↓) at the same time to toggle back to 50%.
Press ESCAPE to exit the menu and save the desired setting.
Press RESET to exit the menu without saving.
The menu will automatically timeout after 2 minutes of inactivity and save.

35. LCD VIEW

ADJUST ↓↑

Adjust the contrast of the LCD Display for optimum viewing.
Press EXECUTE to enter the menu.
Press MENU (↕) to adjust the LCD contrast.
Press ESCAPE to exit the menu and save the desired LCD view.
Press RESET to exit the menu without saving.
The menu will automatically timeout after 2 minutes of inactivity and save.

Important Hard-Key Information

DPC-12 or DPC-12 control modules may be shipped with an invalid hard-key code of 000000. A valid hard-key must be entered before the run time (RTIME) counter reaches 2160 hours / 90 days. If the run time expires without a valid hard-key, the LCD display will show a runtime counter error (RTC ERR!) and all dimmer control outputs will be disabled.

Refer to menu item "HARD-KEY" on page 18 of the user manual for detailed instructions on how to enter a valid hard-key code. Be sure to record and file the valid hard-key code for future reference.

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

JSI Serial Number: _____
Silicone Serial Number: _____
Hard-Key Code: _____

Troubleshooting Reference

[illegible]

User Manual
DPC-12 & DPC-24
3000 Series Digital Pack Controller
Control Retrofit for CD80 Portable Dimmer Packs
Rev 2

www.jsimanufacturing.com



09/16/2025

