

Strand Lighting

CD 80 Supervisor Conversion Kit

Conversion kit comprising electronics chassis and fan assembly to upgrade existing CD80 Standard or CD80AE dimmer racks to the advanced, all digital specification of the latest Supervisor dimmers.

The conversion kit is designed to be a direct replacement of the existing electronics and fan assemblies with the new electronics module.

Cat. No. Description

76463 CD80 to CD80SV conversion Kit (120V)

76464 CD80 to CD80SV conversion Kit (220V-240V)

Control Electronics Specification

General

Processor control electronics on one plug-in module
Completely digital with no analog ramp circuits
Real time date and time clock for status log reporting
6 button keypad to program all rack functions on processor module
2 line by 8 character back lit LCD display on processor module
6 status LEDs on processor module
Mux input A ok
Mux input B ok
Electronics power ok
Processor self test ok
Dimmer module error

Languages

English; Spanish; French; German

Connector on rack front for configuration, control and Operating Software upgrades

Local switch for single rack PANIC function

Control Inputs

Dimmer control

Mux A: DMX512 or AMX192 or D54 or SMX

Mux B: DMX512 or SMX

Analog: 32 inputs, +/-10V

Remote control (system wide)

SWC™ for remote preset panels and hand held programmer unit

Outlook™ for integrated architectural control

Reporter™ for remote configuration and rack status reporting from PC

Local control (per rack)

Rack processor keypad and LCD display for full functionality

Switch for rack PANIC control

RS232 port for local PC control

Rack configuration using the Reporter PC program

Rack preset recording and playback

Library and backup rack set-up storage on PC

Operating software upgrades

External switch contacts

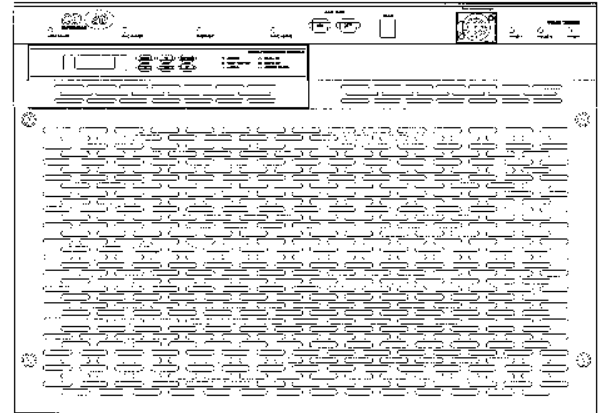
Select Mux A or Mux B (with appropriate control logic mode)

Enable or disable PANIC

SWC preset 1 GO/SWC preset 0 GO/Next SWC preset

PRODUCT DATA

CD80 Supervisor Conversion Kit



- Upgrades CD80 Standard and CD80AE racks to CD80SV operation
- Provides all CD80SV functionality except dimmer reporting function and dual processor option
- Extensive security features
- "Panic" function, to bring selected dimmers to full if processor fails, and can be actuated manually or automatically (eg. by a fire alarm system)
- Line voltage regulation to minimize light output changes when the input voltage fluctuates
- Extensive input control capabilities, ensuring system design flexibility and ability for future system additions and upgrades
- Opto-isolated Mux A and Mux B inputs provided with individual assignment patches
- Up to 32 analog 0 - 10V inputs per rack patchable to any dimmer circuit(s) plus 12 0-10V DC analog outputs
- 99 System Wide Control (SWC™) memories for additional preset and backup use, using simple "snapshot" recording
- 16 room by 8 preset Outlook™ architectural lighting presets for auditorium, front of house and other control
- Direct control of channels and presets by hand held remote programmer with specialised riggers functions
- Built-in library of fixed and custom dimmer curves, accessible per dimmer
- Smooth 16 bit digital fade processing
- Supports dimmer configuration via Reporter PC software

Control Electronics Specification - continued

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| Control Outputs | 96 dimmer control signals |
| | 12 analog +10V output signals |
| | Variable or continuous fan speed control to minimise acoustic noise |

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| Electrical | Signal wire termination at one easily accessible point |
| | Signal wire termination on two-part plug-in connectors |
| | Loop-out connectors for daisy chaining signals between racks |
| | Status LEDs |
| | 5V opto isolation power ok |
| | Auxiliary power supply ok |
| | PANIC active |
| | Rack overheat |

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| Presets | 99 user programmable SWC presets, plus preset 0 (blackout) |
| | Snapshot recording of SWC presets from any remote preset station, hand held programmer or Reporter Program |
| | Individual SWC preset crossfade time recording |
| | One user assignable SWC backup preset on loss of both Mux inputs |
| | 16 rooms, each with 8 Outlook presets, plus on/off, per room |

Control Electronics - Performance

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| | Fast dimmer update rate, 16 ms (60 Hz) or 20 ms (50 Hz) |
| | Response time to signal changes, 16 ms (60 Hz) or 20 ms (50 Hz) |
| | Line regulation maintains dimmer output levels to within +/- 1V of set output within the range of the control electronics (90V to 240V nominal), providing that the set level is not higher than the power input voltage less the dimmer voltage loss. |
| | Automatically compensates for frequency variations 45 Hz to 62 Hz. |
| | Up to 8 point interpolation between DMX values to smooth console fade. |
| | Line and load regulation acts on each individual dimmer and maintains dimmer curve parameters (set curve, max level and min level) |

Control Electronics - Programmable Features

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| Patching | User programmable patches for Mux A and B inputs |
| | User programmable rack start address with following dimmers automatically sequenced |
| | Free format patching - any dimmer to any Mux input and address for total flexibility |
| | User programmable 5-digit ID for sequential numbering of systems larger than 512 circuits |
| | Patch any analog 10V input to any circuit(s) |
| | "Room" to channel to dimmer patch for Outlook architectural control |

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| Dimmer Characteristics | Set max output voltage, 50V to 250V in 1V steps |
| | Set min output level, 0 to 99% |
| | Override dimmer level, 0 to full |
| | Library curves |
| | Square; S-curve; Linear power output |
| | User programmable curves |
| | Non Dim - trigger level 0 to 99% |
| | Fluorescent - electronic ballast |
| | Fluorescent - magnetic ballast |
| | 5 user defined curves via Reporter |
| | Response time |
| | Fast (30 ms) |
| | Normal (100 ms) |
| | Slow (300 ms) |

Security Features

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| Set-up Data Storage | Non-volatile storage of set-up data on removable memory pcb |
| | Memory pcb can be moved on exchange of processors |
| | Set-up data can be saved and stored using the Reporter program |

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| Mux Fail Options | Hold forever (status quo) |
| | User programmable "hold" period before fade to user assigned SWC Preset |

PANIC Function

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| | Any of the 96 dimmer and 12 analog outputs may be user selected to go to fully ON on activation of the PANIC switch or an external switch |
| | Activation is by hardware only |
| | Optional PANIC power supply for automatic PANIC ON upon removal of processor module |

Thermal Control

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| | All power components convection cooled with fan assist |
| | High capacity heat sink in each module |
| | 3 fans for redundancy in case of one fan failure |
| | Over temperature warning on rack, remote console or PC |
| | Over temperature warning forces cooling fans on at full |
| | Over temperature shut down at 5°C above warning level |
| | PANIC operation forces cooling fans on at full |

Opto-Isolation

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| | All digital inputs are opto-isolated to 2,500V RMS |
| | Mux A and Mux B - DMX512, SMX |
| | SWC input |
| | Outlook input |
| | External switch inputs |

Crate Specification

Electronics and fan modules designed to replace existing standard or AE trays

Mechanical

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| | Max ambient temperature 40°C |
| | Convection cooled with fan assist |
| | Two low noise fans |
| | Variable or continuous fan speed control for minimum acoustic noise |

Crate Dimensions and Weights

| | Electronics Crate | Fan Crate |
|---------------|-------------------|----------------|
| Height | 3.75" (95mm) | 10.8" (275mm) |
| Width | 20.5" (520mm) | 24.5" (622mm) |
| Depth | 15" (380mm) | 5.5" (140mm) |
| Weight | 28.5lb (13kg) | 16.5lb (7.5kg) |

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| Shipping Data | | |
| Packed Weight | 32lb (14.5kg) | 19.5lb (9kg) |
| Packed Volume | 2.6cuft (.074m ³) | 2.6cuft (.074m ³) |

Strand Lighting



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