

ACCENT DMX512 CONTROL SYSTEM.

A.) General.

1.) System shall be microprocessor based, utilizing DMX512 digital communications between the control stations and the system dimmers. Systems with stations that do not provide a direct DMX512 output shall not be acceptable.

B.) Mechanical.

1.) The control station faceplates shall be free of visible fasteners and shall be of aesthetic appearance.

2.) Station faceplates shall be fabricated with high-density plastic fascia and trim frame.

3.) Control stations shall be supplied in a off-white finish. Control station legends shall be printed in grey.

4.) Control station push buttons shall have grey button caps with long life red LED linear array indicators.

5.) An integral Infrared receiver shall provide a remote programming interface.

C.) Installation.

1.) Single gang control stations require a standard single gang flush mounted masonry ("ears-in") back boxes, with a minimum depth of 3.5" (90mm). Back boxes must be grounded/earthed in accordance with local wiring practices to provide a discharge path to ground for static electricity.

2.) Control stations shall be supplied complete with a sub-plate, which is screwed to the flush mounting back box with the screws provided. The sub-plate allows the control station to be hinged into position and secured with hexagonal setscrews on the bottom edge of the trim ring.

3.) 1/16" (1.6mm) Allen key shall be provided with each station.

4.) It shall not be necessary to remove button caps or sliders, or to disassemble the control station for installation.

5.) Cable terminations shall be via a screw-terminal for ease of installation.

D.) Operation.

- 1.) All systems require a 15-volt dc supply (nominally 100mA per pushbutton station, 200mA for slider stations) from a remote power supply.
- 2.) A dipswitch shall be provided on the back of each station for room selection.
- 3.) Each room shall have a maximum number of 48 DMX512 channels of control.
- 4.) All stations assigned to control a room will mimic the command actions from other stations within that room.
- 5.) Strand Lighting dimmer cabinets shall provide DMX512 input patching to permit the creation of rooms of any size using their integrated DMX512 input patching.
- 6.) All control functions shall be governed by, and all programmed and stored intensity levels (presets) shall be resident in the system control stations.
- 7.) A Belden 1583A or 9829 cable shall provide a communication and low voltage power path from the dimmer cabinet(s) and remote power supply to the control stations. The number of stations that can be connected to the common communications cable shall be limited to 8. The total cable length shall not exceed 1000ft (300m). The first control station must have a return "loop" to the last control station.

E.) Pushbutton Stations.

- 1.) Shall contain 2, 4 or 8 preset pushbuttons for recall of pre-programmed lighting scenes within a room.
- 2.) Shall contain two raise lower keys shall provide preset mastering and access to the stations record mode.
- 3.) Shall support full recording and playback of all presets within the system through their integral IR remote ports. An IR remote programmer shall be provided with each station.

F.) Infrared Transmitter.

- 1.) The Infrared Transmitter shall be battery operated and shall transmit data up to a distance of 16ft (5m).
- 2.) In playback operation the Infrared Transmitter shall recall presets 1 - 8 and access the raise lower functions of the stations it is pointed at. A single LED indicator shall flash while a button is pressed.

3.) In record mode the station shall access all presets and permit the setting of levels, and fade times for each dimmer assigned to the station by the room selection switch on the station.

4.) The Infrared transmitter shall have a complete set of command buttons including 8 preset selection keys, raise lower keys plus a numeric keypad and command and record buttons.

5.) One Infrared remote shall be provided with each station.

J.) Documentation.

1.) A Programming Guide shall be supplied with each system.

2.) Project installation and connection drawings shall be supplied as specified.

K. Safety.

1.) Control Stations operate at safe extra low voltage circuits (SELV) and contain no hazardous voltages.

L. Environmental Specification.

1.) For all Control Stations and associated equipment, including dimmers and power supply units, the following recommendations shall apply:

a.) Ambient temperature extremes 32° - 104° F (0° - 40° C).

b.) Relative humidity 10% - 90% non-condensing.

c.) General conditions Office level cleanliness - Interior use only.