

Lumenyte Mentor-D™ Single Channel DMX Controller

Installation Instructions

The Lumenyte Mentor-D Single Channel DMX Controller is a simple, in-wall mounted, DMX512 slider controller designed to operate in conjunction with a Lumenyte Encore™ series illuminator equipped with a single channel DMX512 with douser or a two channel DMX512 with douser and color wheel. This system allows a full linear range of light level adjustment from completely dark to full light output. When the slide lever on the controller is at the bottom, the illuminator douser will be fully closed (light level dark- figure 1). As the slide is moved up, the system will start to open the douser (light level increases- figure 2). When the slide is at the top, the douser will be fully open (light level fully on- figure 3). In the event the slider is intended to be in the fully closed, light level dark position for extended periods of time, it is suggested that the illuminator be turned off to ensure optimum lamp life.



FIGURE 1



FIGURE 2



FIGURE 3

A second channel of DMX512 control can be passed through the controller to control the color wheel of a two channel DMX512 system. When passing DMX through the Mentor-D Single Channel DMX Controller, the controller will take control of the douser channel.

The Mentor-D Single Channel DMX Controller has the ability to either control all even numbered channels (standard) or, with the use of the DIP switch on the board, an individual channel can be selected. By removing the jumper from JP1, the unit will replace the single DMX address set on the DIP switch (figure 4).

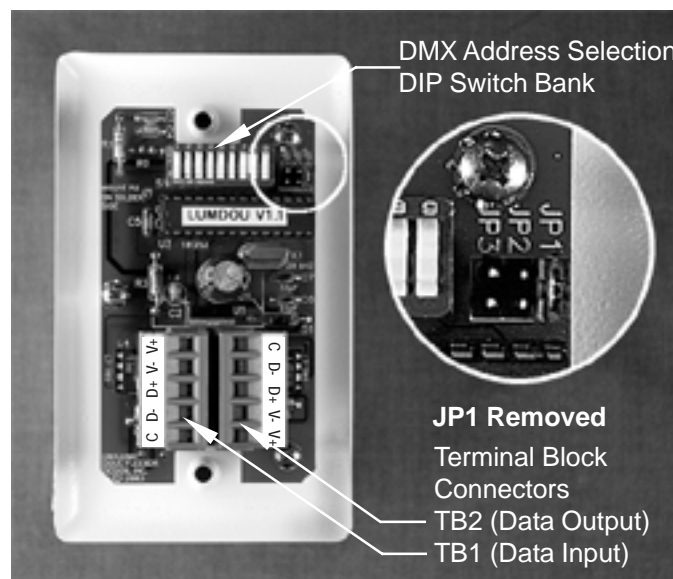


FIGURE 4

An 8-12 volt AC or DC power source (**not included**) is required to power this unit. A typical 10 volt, 5 watt doorbell transformer works well to power the Mentor-D Single Channel DMX Controller.



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Installing the Mentor-D™ Single Channel DMX Controller

The Lumenyte Mentor-D Single Channel DMX Controller is designed to be installed within a wall mount single-gang switch box.

1. Pull the low voltage power wire, DMX input cable and DMX output cable through the mounted box.
2. Remove the two green terminal block connectors from TB1 and TB2 on the controller board assembly by gently pulling them free from the circuit board mounted sockets.
3. Connect the data and power to the two connectors as follows:

Pin#	Label	TB2 Function (Output to Illuminator)	TB1 Function (Input)
1	C	Data Common (ground) Output	Data Common (ground) Input
2	D-	Data Minus Output	Data Minus Input
3	D+	Data Plus Output	Data Plus Input
4	V-	Power Supply Common or Negative from DC sources (TB1 or TB2).	
5	V+	Power Supply Line or Positive from DC sources (TB1 or TB2).	

Supplied power is tied to both connectors allowing for feed-through. Power (pins 4 and 5) can be put on either connector. Data input must be connected to TB1 and data output to TB2. Be sure to keep the excess wiring as short as possible to avoid interference when mounting the controller board assembly into the switch box. With douser only control, only connector TB2 needs to be wired.

4. Plug the two connectors back into the controller board assembly ensuring that they are inserted in their correct locations; TB1 data input and TB2 data output.
5. If a specific address is to be controlled:
 - a. Remove Jumper JP1.
 - b. Set the DIP switch bank to the required address setting. Example: If the illuminator is set to address 13, the slider must be set to address 14.
6. Carefully insert the controller board assembly into the box with the green connectors down. This will place the slider to the right of the faceplate screws. This is the proper orientation for the Mentor-D Single Channel DMX Controller to operate as described above.
7. Secure the faceplate to the box.

Painting the Faceplate

The Lumenyte Mentor-D Single Channel DMX Controller is provided with a white faceplate. If desired, the faceplate can be painted by following these instructions.

Be sure that all power and data is disconnected from the controller assembly. Gently remove both green terminal block connectors from the controller assembly circuit board.

Gently pull the slider knob off the shaft.

Carefully remove the three screws that secure the circuit board to the faceplate.

The faceplate can now be painted with your choice of color.

When painting is complete, carefully replace the circuit board and secure with the three screws.

Reconnect the connectors, replace the slider knob and install as shown above.