

NINE LIGHT FADER CONTROL

SG-226C

USERS MANUAL

DOC-206

Rev. 1.3

Copyright © 2014
All Rights Reserved

Med Associates, Inc.
P.O. Box 319
St. Albans, Vermont 05478
www.med-associates.com

notes

Table of Contents

Chapter 1 Introduction.....	3
Chapter 2 Wiring Instructions	3
Chapter 3 Operating Instructions	7
Adjusting the Light Intensity	7
Sample .MPC Code.....	8
Appendix A Contact Information.....	8

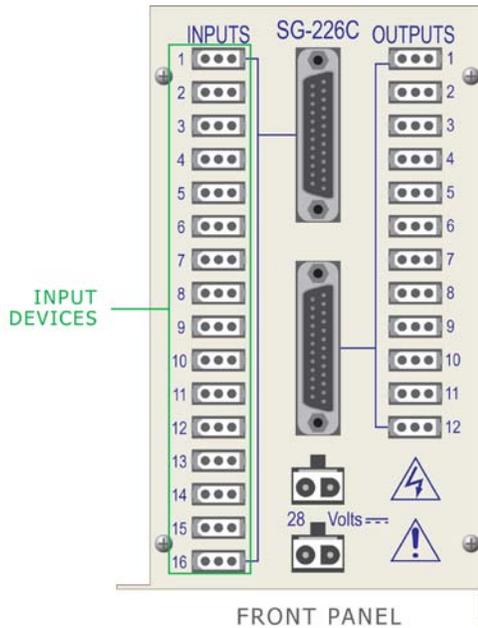
CHAPTER 1 | INTRODUCTION

If the SG-226C Nine Light Fader Control was purchased as part of a package (e.g. Deluxe Nine Nose Poke Package or Five Choice Serial Reaction Time Task) it will arrive from the factory with some of the wiring completed. If the SG-226C Nine Light Fader Control was purchased separately, detailed wiring instructions follow.

CHAPTER 2 | WIRING INSTRUCTIONS

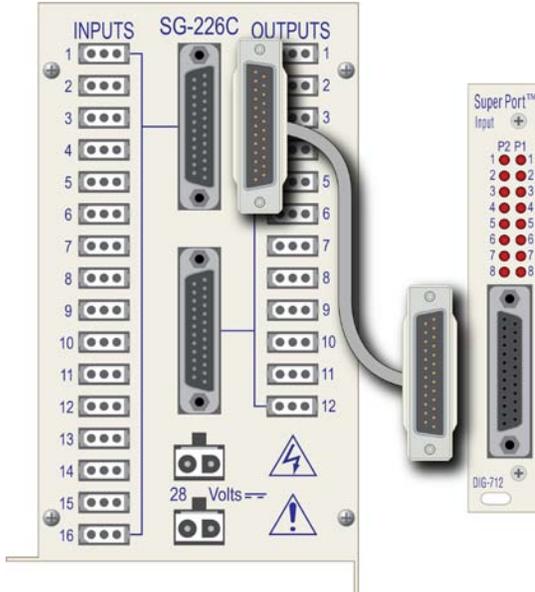
1. Connect the input devices (e.g. I.R. detectors) into the appropriate 3-pin Molex INPUT connectors on the SG-226C, as indicated below in Figure 1. The input devices are not affected by the fader.

Figure 1 – Connecting Input Devices



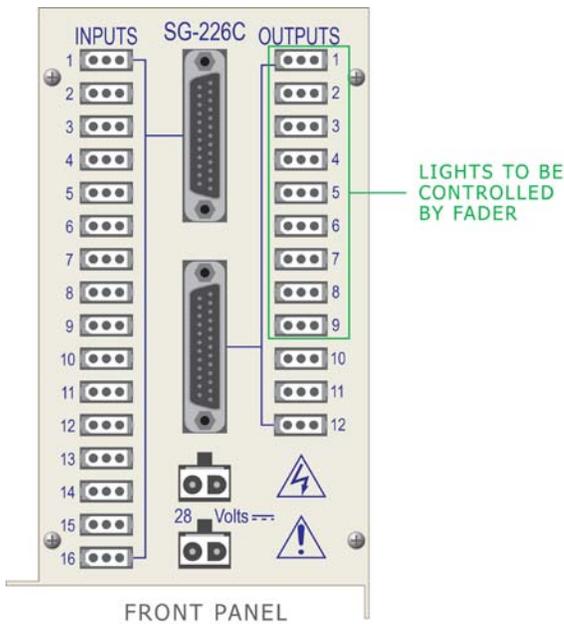
- Using an SG-210CB cable, connect the INPUT serial port on the SG-226C to the corresponding SG-712 input card, as shown below in Figure 2.

Figure 2 – Connect the INPUT Serial Port to the Input Card



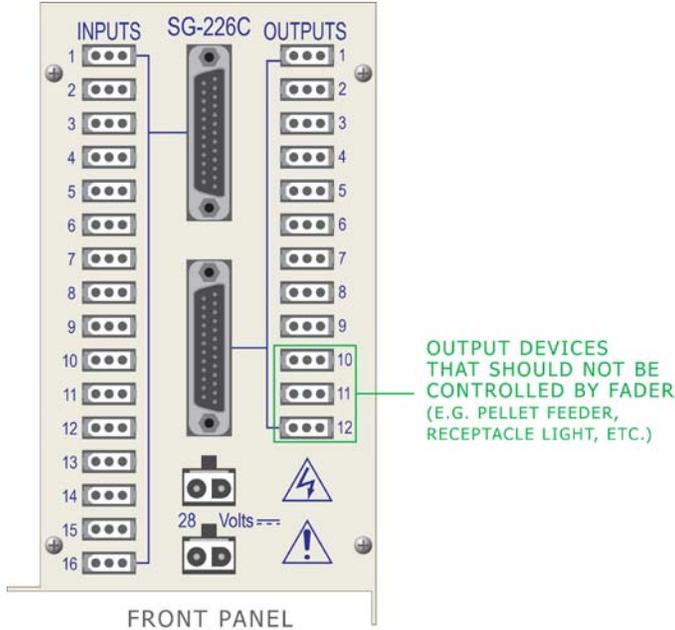
- Connect the lights to be controlled by the fader to OUTPUTS 1 – 9 on the SG-226C, as shown below in Figure 3.

Figure 3 – Connect Lights to be Controlled by the Fader to OUTPUTS 1 – 9



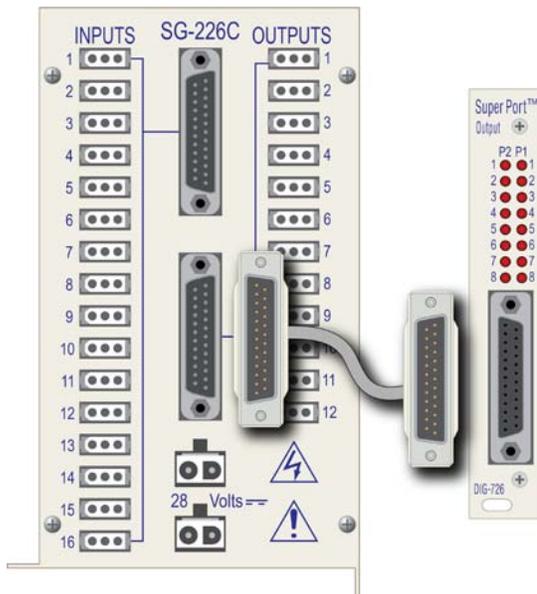
4. Connect any output devices (e.g. pellet feeder or house light) that should not be controlled by the fader to the 3-pin Molex OUTPUTS 10 – 12, as shown below in Figure 4.

Figure 4 – Connect Output Devices to OUTPUTS 10 - 12



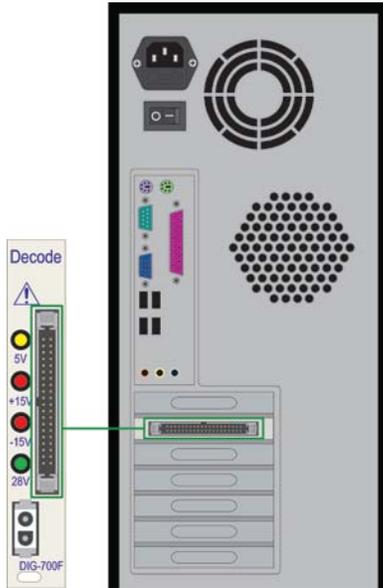
5. Using an SG-210CB cable, connect the OUTPUT serial port on the SG-226C to the corresponding SG-726 input card, as shown below in Figure 5.

Figure 5 - Connect the OUTPUT Serial Port to the Output Card



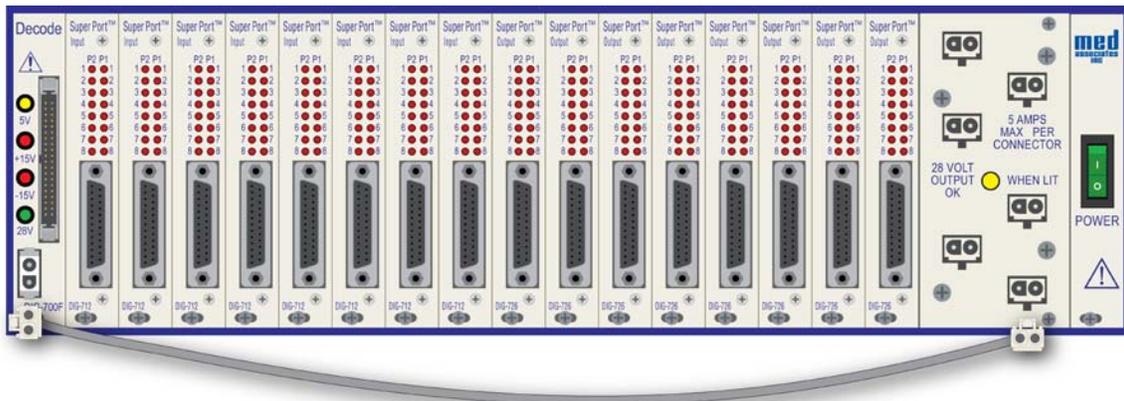
- Using the DIG-700C ribbon cable, connect the DIG-704 PCI-2 interface card located in the computer to the DIG-700G decoder card located in the interface cabinet. Be careful not to force the connector, as doing so could bend a pin and cause the system to malfunction. It is not advisable to use a longer ribbon cable.

Figure 6 – Connect the DIG-700F Decoder Card to the DIG-704PCI Interface Card



- Using an SG-210CP-2 cable, connect the DIG-700G decoder card to the 28 VDC power supply card, as shown below in Figure 7.

Figure 7 – Apply Power to the DIG-700G Decoder Card (Eight-Station System Shown)



8. If there are multiple boxes included with the system, each SG-226C Fader Control, DIG-712 Input Card and DIG-726 Output Card will be labeled with a number. The SG-226C that is labeled '1' should be connected to the Input and Output Cards labeled '1', the SG-226 c that is labeled '2' should be connected to the Input and Output Cards labeled '2', etc.
9. Using the included A/C power cord, connect the SG6510D Cabinet to a standard wall outlet.
10. Switch the green POWER switch on. The switch is lit when power is applied.

NOTE: Never insert or remove cards from the cabinet when the power is turned on

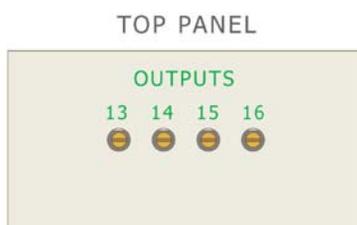
CHAPTER 3 | OPERATING INSTRUCTIONS

Once the SG-226C Nine Light Fader Control has been wired according to the directions above it may be used to control the intensity of the lights connected to OUTPUTS 1 – 9. The intensity of all of the lights can be adjusted to any one of four settings controlled by the potentiometers on the top panel of the SG-226C, labeled OUTPUTS 13 – 16 in Figure 8.

Turn the lights on by activating the corresponding outputs. Dim the lights by activating the output that corresponds to the desired potentiometer.

For example, if lights are connected to OUTPUTS 1 – 9 on the SG-226C, turn on OUTPUTS 1 – 9. To dim the lights using the potentiometer that corresponds to OUTPUT 13, turn on OUTPUT 13. In this manner, the lights can be dimmed at four different levels using each of the four potentiometers.

Figure 8 – Top Panel of the SG-226C



Adjusting the Light Intensity

Adjust the intensity of light to the desired level using a small flat head screwdriver to turn the potentiometers on the top panel of the SG-226C (labeled OUTPUTS 13 – 16 in Figure 1). Turn the potentiometer clockwise to increase the light intensity and counterclockwise to decrease the light intensity.

Sample .MPC Code

The sample code below is for use with a Nine Nose Poke package, simply adjust the number of outputs for a five nose poke system.

```
S.S.1,  
  
\ When a start command is issued, OUTPUTS 1 - 9 will turn on  
S1,  
  #START: ON 1,2,3,4,5,6,7,8,9 ---> S2  
  
\ Wait 5 seconds and turn on OUTPUT 13, dimming the lights  
S2,  
  5": ON 13 ---> S3  
  
\ When a response is detected, turn off OUTPUT 13 so that lights  
are  
\ no longer dimmed and turn on OUTPUT 10 (pellet feeder)  
S3,  
  #R1: OFF 13; ON 10 ---> S4  
  
\ Wait 1 second and turn off OUTPUT 10, return to State 2.  
S4,  
  1": OFF 10 ---> S2
```

APPENDIX A | CONTACT INFORMATION

Please contact MED Associates, Inc. for information regarding any of our products.

Visit our website at www.med-associates.com for contact information.

For technical questions, email support@med-associates.com.