

# **NINE NOSE POKE SYSTEM**

## **WIRING GUIDE**

**DOC-135**

**Rev. 1.1**

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## INTRODUCTION

The Nine Nose Poke System will arrive from the factory with most of the components wired. The document serves as a guide to completing the wiring of the system as well as rewiring a system that may have been disassembled. Should any further assistance be required please contact MED Associates by visiting [www.med-associates.com](http://www.med-associates.com).

The Nine Nose Poke wall should already be installed in the chamber and connected to the SG-215D4 Interface Panel as shown in Figure 1 when it is received from the factory. Do not change this wiring, as the Nine Nose Poke Software (optional) relies on this configuration to accurately record data. If connections need to be removed for any reason, be sure to label each wire so it can easily be matched to the correct port when reconnected.

The Nose Poke Stimulus Lights are connected in order, from left to right, as shown in Figure 2, to Outputs 1 – 9 on the SG-215D4 Interface Panel. Following the same convention each Nose Poke’s IR Detector is connected to Inputs 1 – 9 on the SG-215D4 Interface Panel. If the system is equipped with a Pellet Feeder it should be connected to Output 10 and the Pellet Feeder IR Detector should be connected to Output 11 on the SG-215D4 Interface Panel. If the chamber includes a Receptacle light, it will already be connected to Output 11 on the SG-215D4 Interface Panel.

All of the wiring described above is completed at the factory prior to shipping. The only wiring that must be completed by the customer is described in the detail in the Wiring Instructions section below.

Figure 1 - Wiring Completed Prior to Shipping

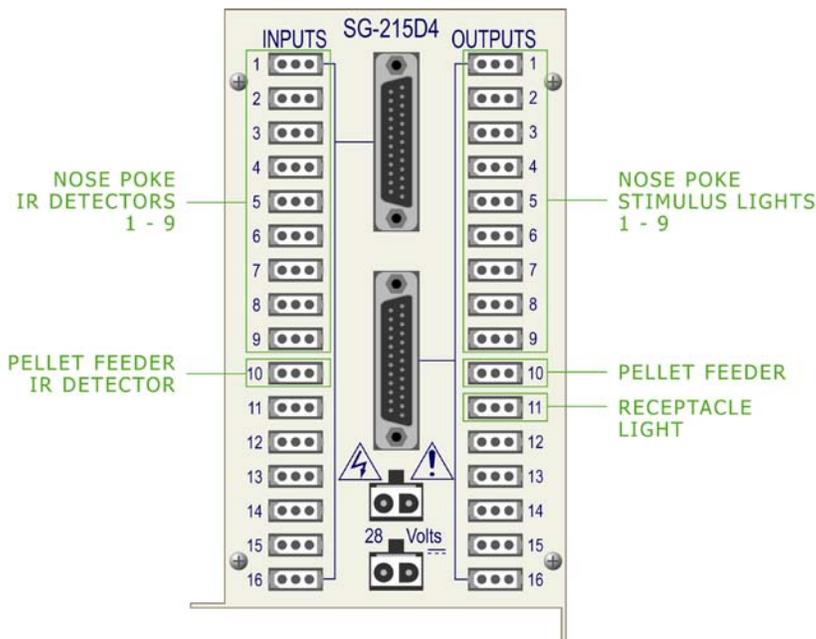
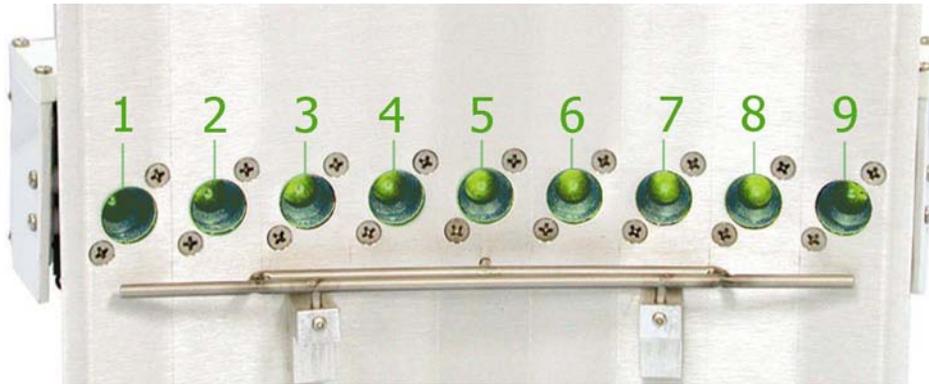


Figure 2 - Numbering the Nose Pokes from Left to Right



### Hardware Guide

Figure 3 - Interface Cabinet (Contains DIG-700F, DIG-712 and DIG-726 Cards)



Figure 4 - DIG-700F Decoder Card (One Per Interface Cabinet)

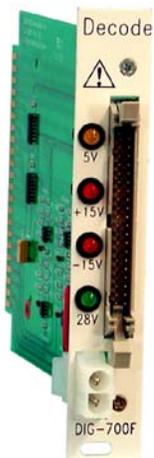


Figure 5 - DIG-712 Super-Port Input Card (One Per Chamber)

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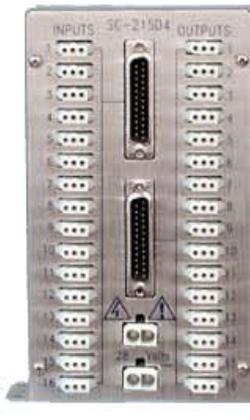
Figure 6 - DIG-726 Super-Port Output Card (One Per Chamber)

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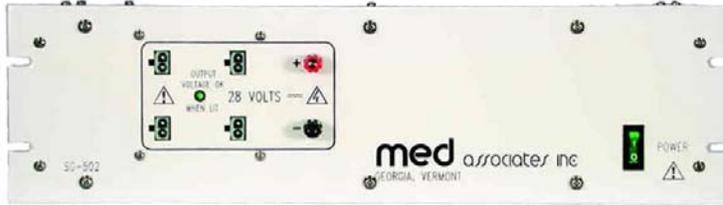


Figure 7 - SG-215D4 Passive Connection Panel (One Per Chamber)

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*Figure 8 - SG-502 Power Supply (One Per Interface Cabinet)*



*Figure 9 - Back of Computer (One Per Interface Cabinet)*



## Cable Guide

*Figure 10 - SG-210CP 2-pin Molex Cable (System includes 8' and 25' SG-210CP Cables)*

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*Figure 11 - DIG-700C Ribbon Cable*

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*Figure 12 - SG-210B-25 Serial Port Cable*

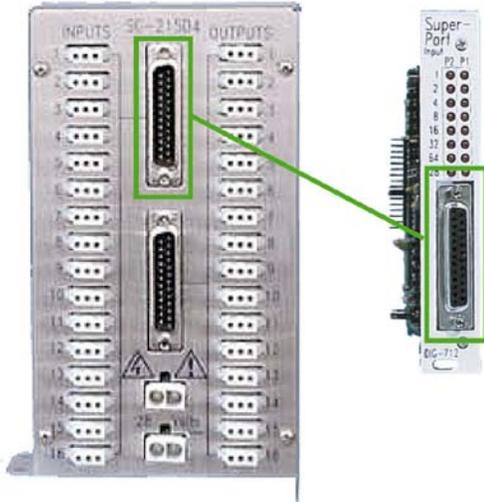
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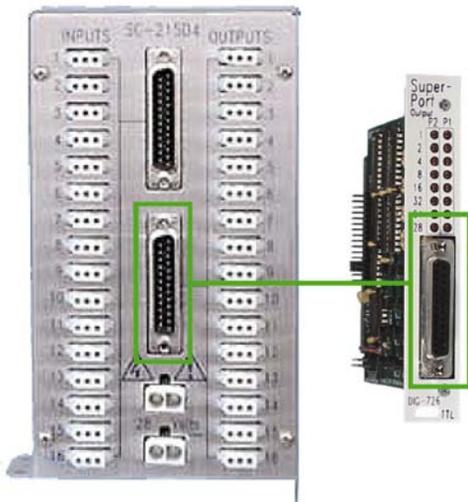
## WIRING INSTRUCTIONS

### Interface Connections

1. Using an SG-210B-25 serial port cable, connect the SG-215D4 Input port to the DIG-712 Super-Port Input Card (located in the interface cabinet) as shown.

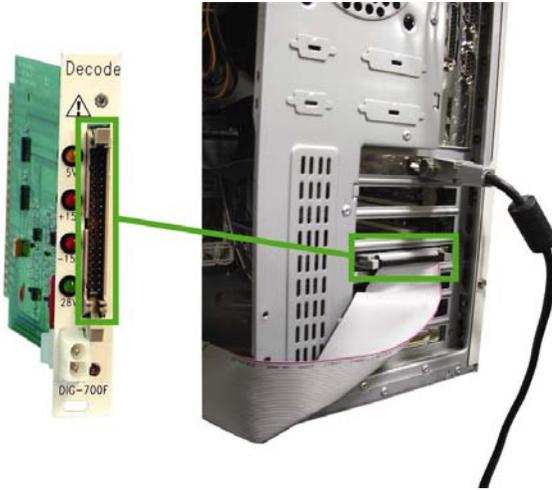


2. Using another SG-210B-25 serial port cable, connect the SG-215D4 Output port to the DIG-726 Super-Port Output Card (located in the interface cabinet) as shown.



## Computer Connection

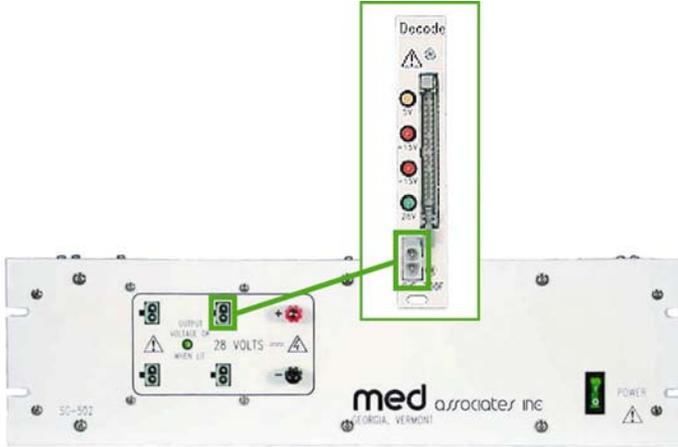
1. Using the DIG-700C Ribbon Cable, connect the DIG-700F Decoder Card (located in the interface cabinet) to the back of the computer, as shown.



## Power Connections

**NOTE:** Be sure that the SG-502 Power Supply is turned off prior to making any power connections.

1. Supply power to the interface cabinet using an eight foot SG-210CP 2-pin Molex cable to connect the SG-502 Power Supply to the DIG-700F Decoder card (located in the interface cabinet), as shown.



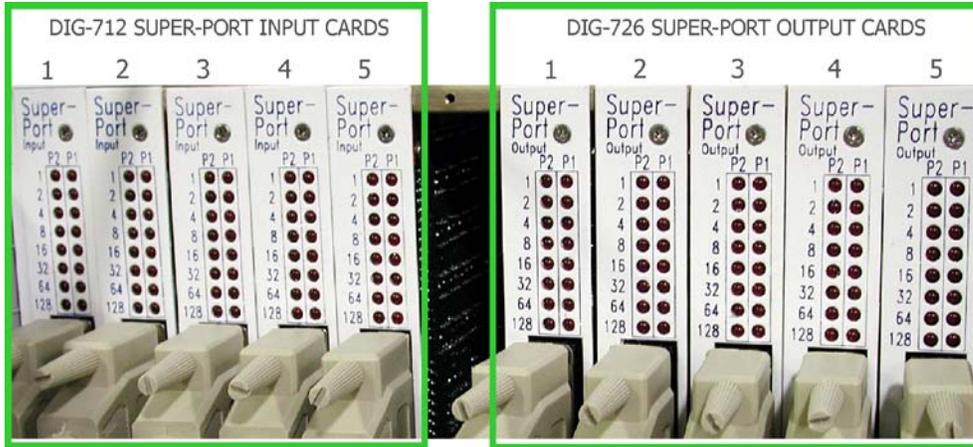
2. Supply power to the SG-215D4 Passive Connection Panel using a 25' SG-210CP 2-pin Molex cable connected to the SG-502 Power Supply, as shown.



3. If only one chamber is being used, then wiring is now completed. Refer To Connecting Additional Chambers for instructions on adding chambers to the system.

### Connecting Additional Chambers

1. Complete the steps in the Interface Connections section of this manual for each additional chamber. The Super-Port Input and Output cards in the interface cabinet are in order from left to right, meaning that the leftmost cards connect to Chamber 1 and the rightmost cards connect to the last chamber. In the figure below, the Interface Cabinet is configured to support five chambers, and the numbering system is shown.



2. To supply power to each additional chamber they must be daisy-chained together using SG-219CP cables, as shown below. Be sure to use twenty-five foot cables to connect Chambers 1 and 5 to the SG-502 power supply and eight foot cables to daisy chain power to the remaining chambers.

