

## INFORMATION

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## INTRODUCTION

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The PathWay® Model 7208-CC DB15 Interface A/B/C/D Switch provides switching in a compact, desktop unit. It allows the user the capability of sharing a single DB15 interface device connected to the Common port among four other devices connected to the "A", "B", "C", and "D" ports.

There is no "local" or front panel switch controls on the unit. The Model 7208-CC can ONLY be switched remotely from the HD15/female Interface Control port located on the rear of the unit. The front panel LED display indicates the switch position and unit power status.

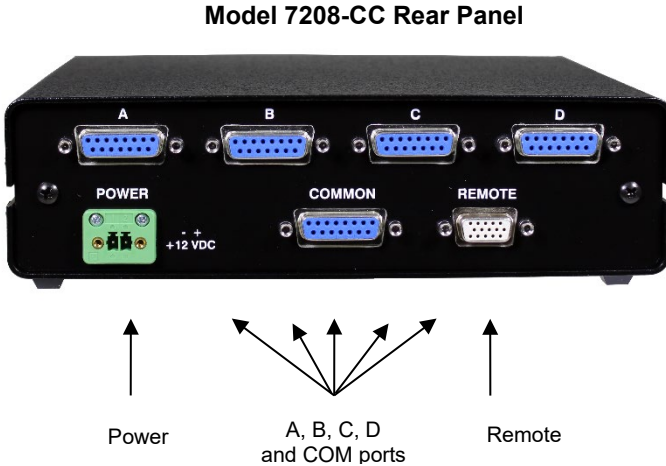


### Features:

- The switch ports are transparent to all data.
- All 15 Signals from the DB15/F connectors on the rear panel are passed.
- Unit switches based on remote contact closure upon power up.
- Contact closure remote control allows position changes.
- Status output provided on remote port by way of contact closure connection.
- The unit maintains last set position on power loss and continues to pass data.
- Front panel LED's display the current position and power status.

## INSTALLATION

This section describes the physical connections required to start operating the Model 7208-CC.



*Figure 1: Model 7208-CC Rear Panel*

The rear panel view of the switch is shown in the above figure. On the rear of the switch are the following ports:

- **POWER** – Phoenix (F), External Power Supply Input connector.
- **REMOTE** – HD15 (F), the remote contact closure port.
- **COMMON** – DB15 (F) connector, the “COMMON” or shared device port.
- **A** – DB15 (F) connector, the “A” device port.
- **B** – DB15 (F) connector, the “B” device port.
- **C** – DB15 (F) connector, the “A” device port.
- **D** – DB15 (F) connector, the “B” device port.

## **Power Supply**

After all the proper connections have been made, plug the Model 7208-CC into a 100VAC/240VAC, 50Hz/60Hz wall receptacle using the supplied 12VDC, 500mA, UL listed and LPS approved, 2-prong US non-polarized NEMA 1-15P plug wall mount power supply, P/N 516682.

Option: Wide Range Power Module, (Cat. No. 517277), 100VAC/240VAC, 50Hz/60Hz, IEC 60320 C14 inlet, can be ordered in place of the standard NEMA 1-15P plug power module. Ideal for international applications.

Upon power up the Model 7208-CC will process its power up routine. When the routine is done the front panel LED's will indicate the current position of the unit. At this point the unit is ready for operation.

## Remote Port Connection

This is a custom HD15 port. This port's signals support the contact control feature as well as contact status. Please pay close attention to the connector pin/signal list and do not use this port for serial communications. The port signals are listed below.

HD15 Pin	Function
1	Contact Closure Control – Position A
2	Contact Closure Control – Position B
3	Contact Closure Control – Position C
4	Contact Closure Control – Position D
5	Contact Closure Control – Common (gnd)
6	Not connected.
7	Not connected.
8	Not connected.
9	Not connected.
10	Not connected.
11	Contact Closure Status – Position A
12	Contact Closure Status – Position B
13	Contact Closure Status – Position C
14	Contact Closure Status – Position D
15	Contact Closure Status – Common

*Table 1: Complete pinout of the HD15 Remote Port*

Note: Pins labeled as “(gnd)” in Table 1 are pins that are internally tied together and connected to ground.

## OPERATION

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The Model 7208-CC can be operated by the remote port only.

### Model 7208-CC Front Panel

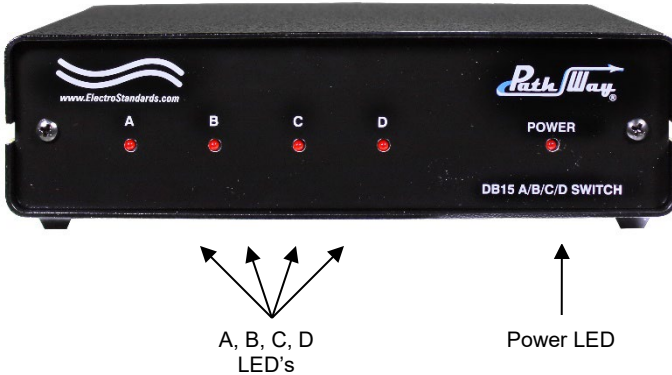


Figure 2: Model 7208-CC Front Panel

### Manual Control

The front panel view of the switch is shown in the above figure. On the front of the switch are the following controls and indicators:

- **A, B, C, D, POWER INDICATORS** - red LED's indicate the switch position as well as the power status. The LED in the steady state indicates the position of the switch.

### Remote Contact Closure Control

Remote control of the switch is achieved by a change to a closed state between pin 5 (Common) and one of the position pins. For example, shorting pins 1 and 5 will switch the unit to Position A.

### Remote Contact Closure Status

Remote monitoring of the switch position is achieved through a continuity reading between pin 15 (Common) and the respective pin that indicates the unit's position. For example, when the unit is in Position A, there will be continuity between pin 15 and pin 11.

## **Switch Position on Power Down**

If power to the Model 7208-CC is lost, the switch will maintain its current position and continue to pass data. Upon power restore, the unit will check the state of the contact closure remote. If a valid contact closure state is set, the unit will switch based on that. Otherwise, the unit will stay in the position it was in at power down.



## **TROUBLESHOOTING**

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Described below are some common troubleshooting steps and solutions. If following the troubleshooting guide does not solve the problem, please contact Technical Support for further assistance.

### **Switching Issues**

#### **The unit changes positions automatically on power up.**

- This is most likely the correct functioning by design. Remember that the position after power up is determined by the open-closed state of position control pins of the contact closure remote port. See section “Switch Position on Power Down” on page 8 for detailed information.

### **Remote Issues**

#### **The remote port is not switching.**

- Check the pinout being used with the remote port. The custom pinout can be found in Table 1 on page 6.
- The contact closure control can only have one position contact connected to the common at once.

#### **The unit does not work with a control system connected to the remote port.**

- Depending on the control system connected and how it is configured, it may be important to note which remote port pins are internally tied to ground. See Table 1 on page 6 for this information.

## **SPECIFICATIONS**

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### **Size**

Width: 7.25"

Height: 2.0"

Depth: 7.75"

Weight: 3.0 lbs

### **Environment**

Operation Temperature: 0°C to 50°C

Storage Temperature: -40°C to 85°C

Humidity: 10% to 90% without condensation

### **Power Requirements**

Voltage: 12VDC

Current: 150mA (peak), 30mA (nominal)

### **Signal Port Ratings**

0.6A, 125VAC

1A, 30VDC

### **Signal Port Interfaces**

(5) DB15 (F) signal ports

### **Signal Port Channels**

(1) Channel of DB15 A/B/C/D/COM ports

### **Signal Port Pins Switched**

DB15: Pins 1-15

### **Remote Port Interface**

(1) HD15 (F) Contact Closure Control/Status Port with Custom Pinout

### **Front Panel Control and Indicators**

(5) Red LED's

### **Power Supply 516682**

Input: 100-240VAC, 50/60Hz, 0.2A

Output: 12VDC (regulated), 0.5A

## **CUSTOMER & TECHNICAL SUPPORT**

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### **Customer Support**

For customer assistance, ordering assistance, or communications cables of any length or configuration, please contact Electro Standards Laboratories, (877) 943-1164 and ask for sales/customer support.

### **Technical Support**

For technical support with unit operation, cable configuration, etc., please contact Electro Standards Laboratories, (877) 943-1164 and ask for technical support. Please have the unit model number and serial number available when you call.