

db Zero-U Installation Manual



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Mounting the Control Unit

- Mount the db Zero-U Control Unit
 - The Control Unit can be attached using the Magnetic Strips for Steel Cabinets or VHB Strips for Aluminum Cabinets.
 - Alternatively, the Control Unit can be placed on a cabinet shelf
- It is preferable to mount the Control Unit near the top of the rack, to ease the running of cables, however this isn't essential.



Figure 3

Installing the Lock

Please refer to the relevant lock installation manual for details on how to install the lock.

Connect the Control Unit to a Network

- Use the supplied CAT5 cable to connect the Control Unit to a Network. Connect the CAT5 cable to the port labeled "NETWORK" on the back of the Control Unit as shown in Figure 4.

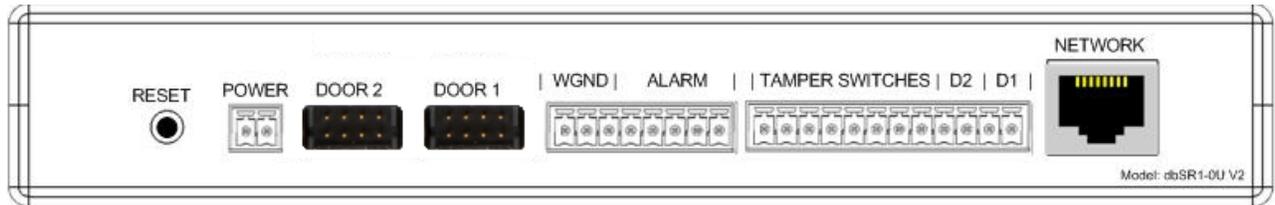


Figure 4

Installing the Door Contacts

- For each device (D1/D2) on a Zero-U, a set of Door Contacts can be installed. The Door Contacts will allow the position of the door (open/closed) to be monitored.
- **Use the supplied Door Contacts only.**

Do not use ordinary reed switches as these will cause the device to go into an alarm condition.

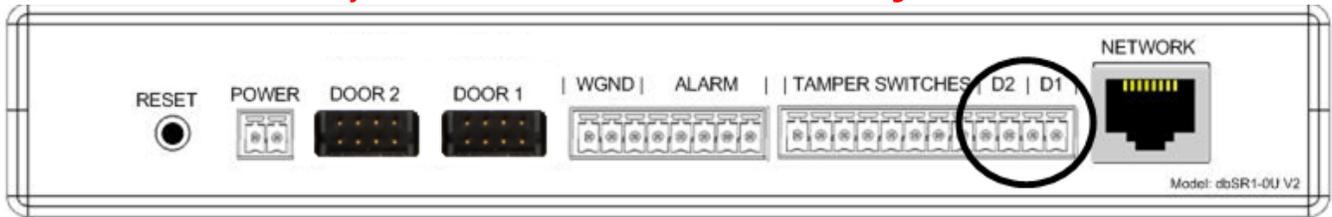
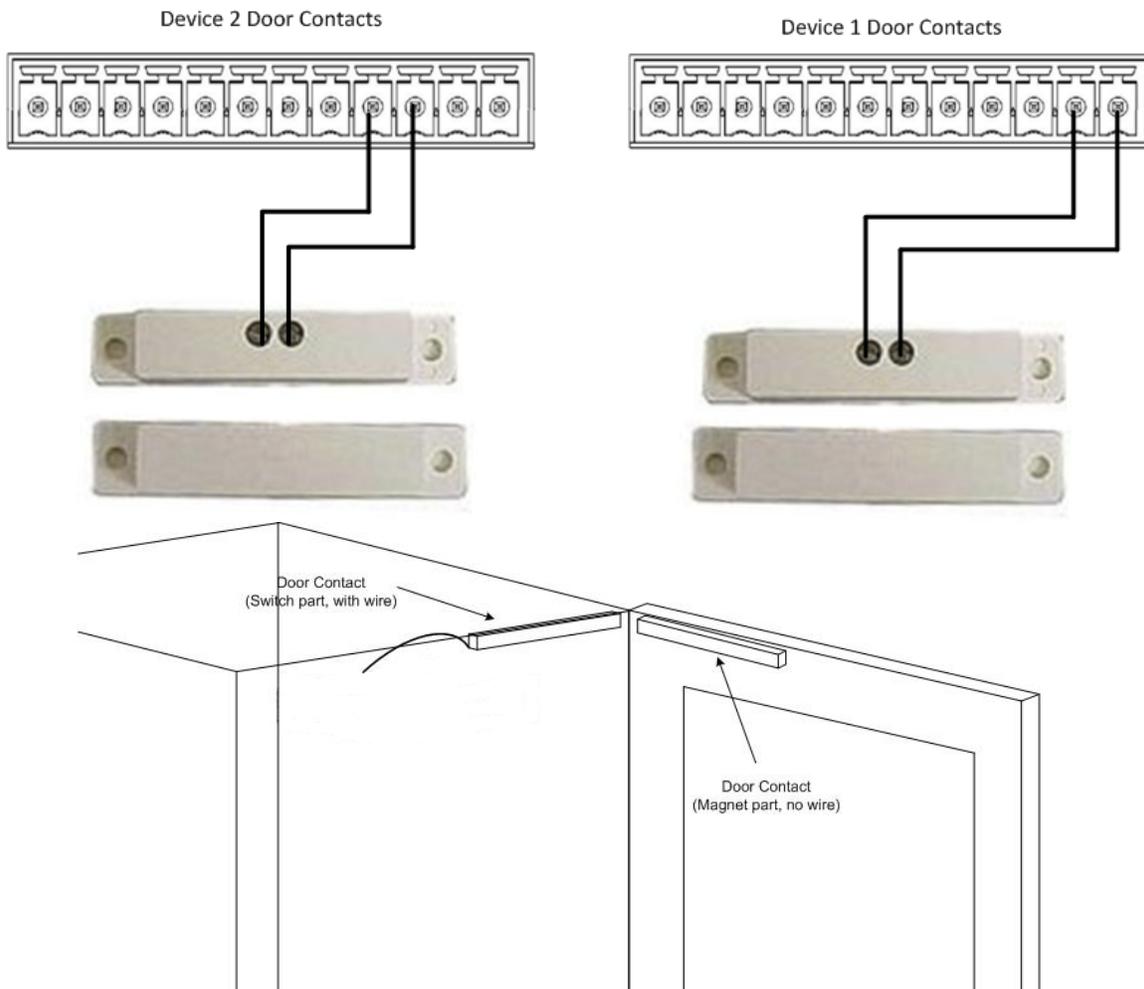


Figure 6a



Using the Tamper Switch Inputs

- The db ServerRack Access Control unit provides for up to 4 tamper switches. The tamper switches can be connected to the cabinet side, floor or roof panels. Tamper switches are not included in the kit.

* Tamper switches can be ordered from your Authorized Digitus supplier.

DO NOT USE ORDINARY REED SWITCHES AS THESE WILL CAUSE THE PRODUCT TO GO INTO A CONTINUOUS ALARM CONDITION.

- Pins 1 thru 8 are used for the Tamper Switches, as show in Figures 5a and 5b.

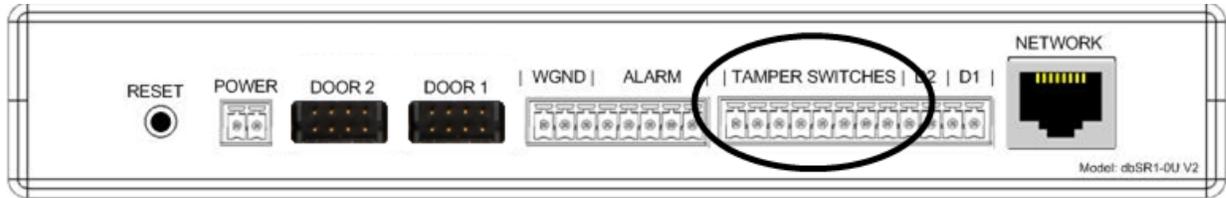


Figure 5a

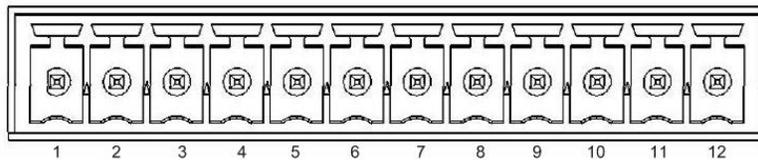


Figure 5b

- Tamper Switches are connected to any of the following pair of connector pins, 1 & 2, 3 & 4, 5 & 6 or 7 & 8.

If you are using some, but not all of the tamper inputs, the unused inputs must have a 10K resistor installed in the terminal. Please wire resistors as show in figure 5c so as to avoid any or the resistor leads touching. If none of the tamper inputs are being used, the resistors are not required as the tamper alarm can be disabled via the software.

IF ANY RESISTOR LEADS TOUCH, THIS WILL CREATE AN ALARM CONDITION.

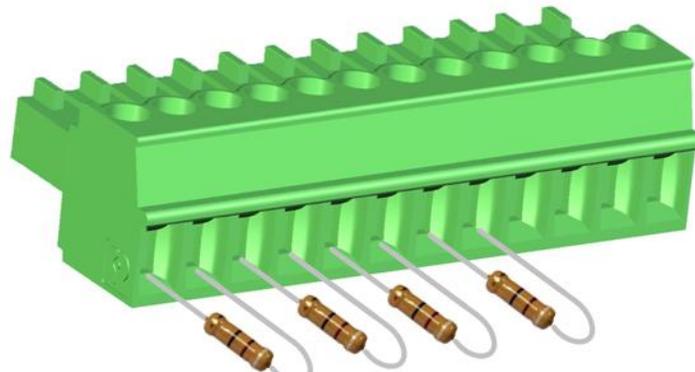


Figure 5c

Using the Alarm Output

- Certain events create an alarm condition. These events are:
 - ⦿ A door/panel with a Tamper Switch Attached was opened.
 - ⦿ A door/panel with a Door Contact Switch was opened without valid fingerprint identification.
 - ⦿ A door with a Door Contact Switch was opened and left open for longer than the Propped Door Delay (set via the DAS-SQL software).
 - ⦿ A Duress Finger was used to open a cabinet. This will be a silent alarm at the cabinet, but will still trigger the Alarm Output.
- The Alarm Output provides a method to connect the db Zero-U Controller to a third-party product, to alert it that an alarm condition has occurred.
- The Alarm Output terminals are shown in Figures 7a and 7b.

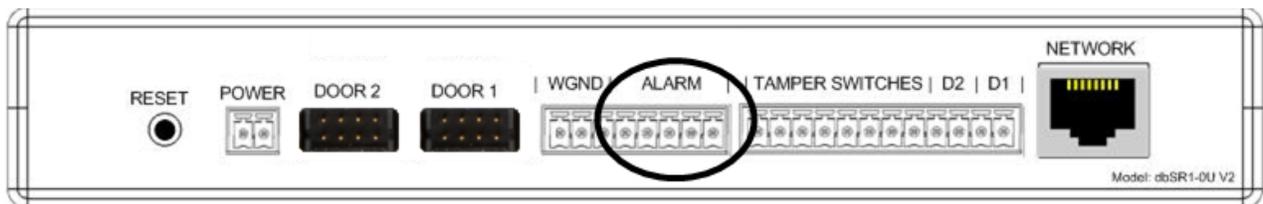


Figure 7a

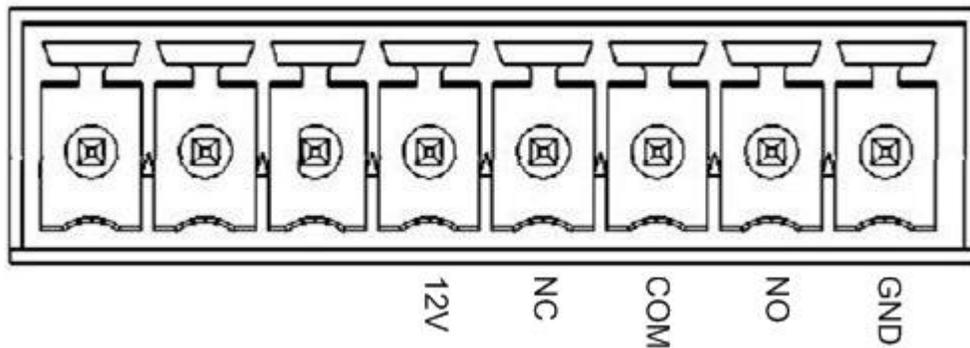


Figure7b

- 12V can be used to provide a 12 Volt supply to an external device.
- NC is the Normally Closed relay contact
- COM is the Common relay contact
- NO is the Normally Open relay contact
- GND can be used in conjunction with 12V to provide a 12 Volt supply to an external device.

Using the Wiegand Output

- The db ServerRack Zero-U v2 offers a 26-bit Wiegand output, allowing seamless integration into 3rd-party Access Control System.
- The diagram shows how to connect a Control Unit to a 3rd-party system.
- The Wiegand Output terminals are shown in Figures 8a and 8b.

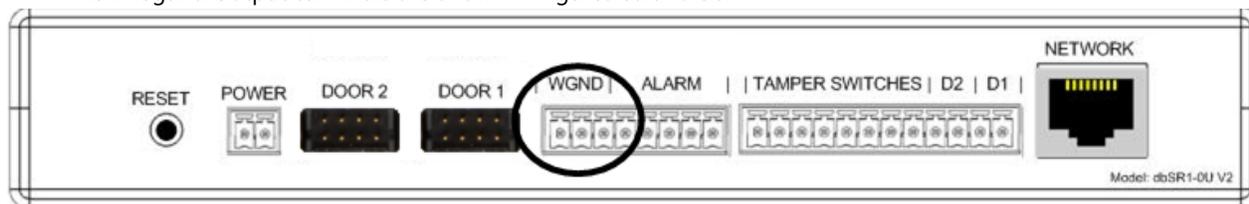


Figure 8a

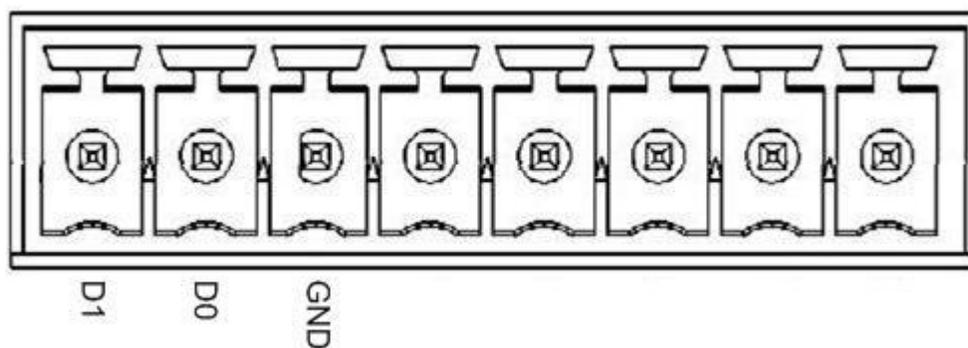


Figure 8b

- D1 is Data 1 of the Wiegand Output.
- D0 is Data 0 of the Wiegand Output.
- GND is the Wiegand Ground

Connecting Power to the Control Unit

- Connect the supplied power supply as shown in Figures 9a and 9b.
- Plug the power supply into a standard power outlet, a Power Distribution Module (PDU) or preferably an Uninterruptable Power Supply (UPS).

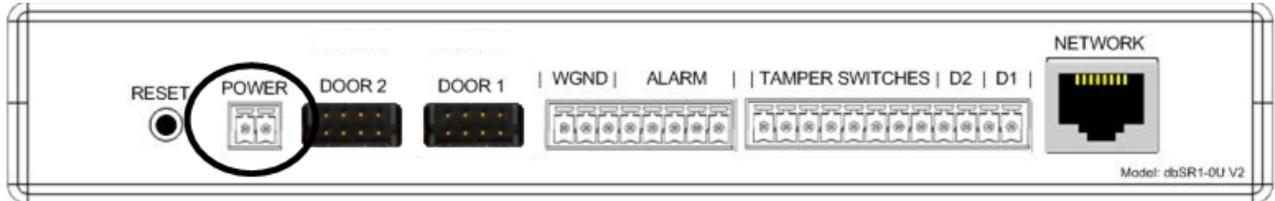
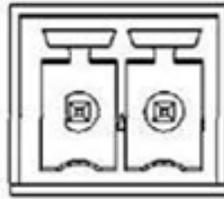


Figure 9a



- (neg) + (pos)

Figure 9b

- The Negative terminal of the Power Supply must be connected to the left terminal (as viewed from the rear of the Control Unit)
- The Positive terminal of the Power Supply must be connected to the right terminal (as viewed from the rear of the Control Unit)

IF THE POWER SUPPLY IS WIRED BACKWARDS, THE CONTROL UNIT WILL NOT POWER UP. THE UNIT HAS PROTECTION TO PREVENT IT FROM BEING DAMAGED IF WIRED INCORRECTLY.



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