

EXP-2000 Quick Start Guide

Suprex® Wiegand Extender Expansion



What is included:

- EXP-2000 Central
- EXP-2000 Remote
- Connector Sets (2)
- Warranty
- Quick Start Guide

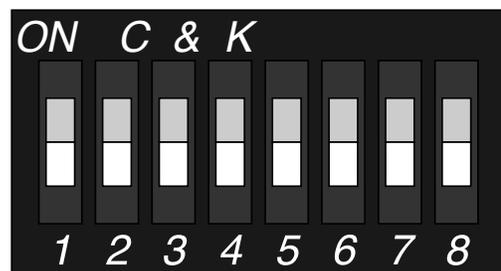
Product Overview:

The EXP-2000 is a set of Central and Remote expansion boards for the Suprex Reader-Extender products. The EXP-2000 units connect to a Suprex pair with a 2-conductor RS-485 connection. Up to 7 Cypress EXP-2000 pairs can be used with 1 Suprex pair, allowing a total of 8 readers to be connected to the access controller. The EXP-2000 pair supports a Wiegand input of 24-248 bits, the same I/O channels, and the same interface types as the Suprex Reader Extenders.

Basic Bench Test (One EXP Pair):

1. Connect a suitable power supply to Suprex and EXP-2000 pair. For this bench test, the units can share the same power supply. Each unit needs to be supplied 8-16 Vdc and approximately 300mA.
2. Connect the EXP-2000 Remote to the Suprex Remote. Connect the EXP-2000 Central to the Suprex Central. EXP(+) to EXP(+), and EXP(-) to EXP(-).
3. Connect the Suprex Central and Remote units together.
4. Apply power to the EXP-2000 and Suprex units. After a few seconds, the status LEDs on all four units should be flashing green. This indicates that the Suprex units are communicating and the EXP-2000 units are being properly polled.
5. On the EXP-2000 Central unit, touch a jumper wire to Ground and Relay 1 Input. Relay 1 on the EXP-2000 Remote unit should change state. There will be an audible click when the relay changes state. The state of the relay can be monitored by using a multimeter in continuity mode.
6. If a Wiegand reader is available, connect it to the EXP-2000 Remote (D0, D1, and ground). Connect the EXP-2000 Central to the access controller (D0, D1, and ground).
7. Present a credential to the reader and verify that it was received by the access controller.
8. Once these steps have been completed, the EXP-2000 units are ready to be installed in the field.

DIP Switch Settings:



Address Select			Interface Type Select		
6	7	8	3	4	5
0	0	0	0	0	0
0	0	1	0	0	1
0	1	0	0	1	0
0	1	1	0	1	1
1	0	0	1	0	0
1	0	1	1	0	1
1	1	0	1	1	0
1	1	1	1	1	1

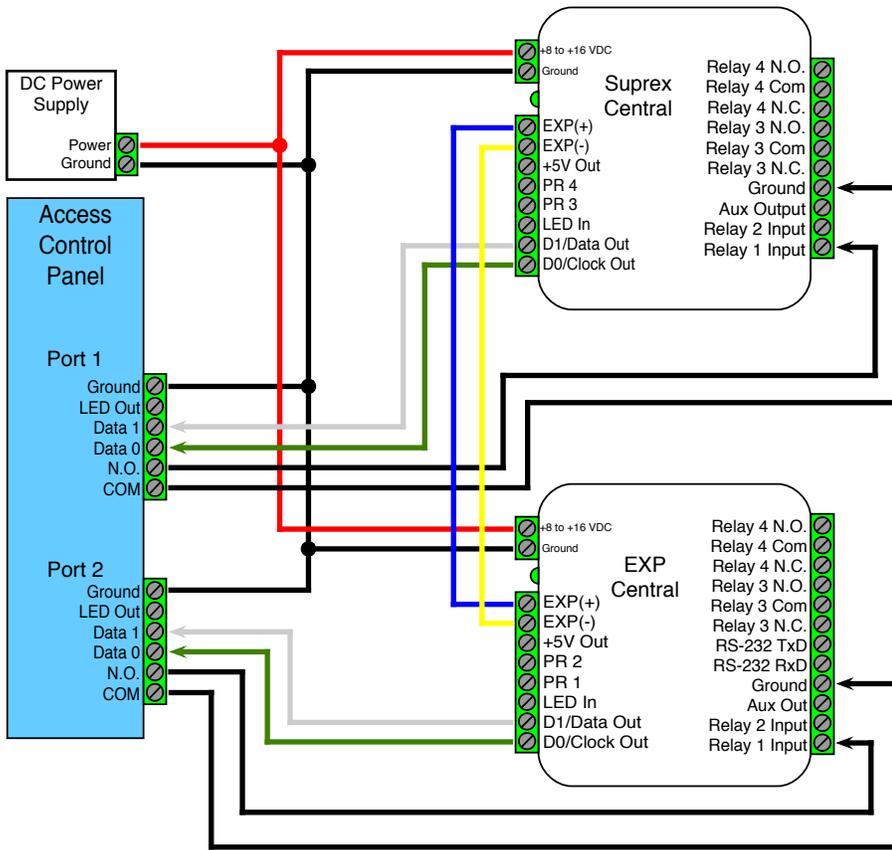
DIP Switches 3, 4, and 5 set the data interface.
DIP Switches 6, 7, and 8 set the polling address.

DIP Switch 2 sets the EXP to Central or Remote mode.

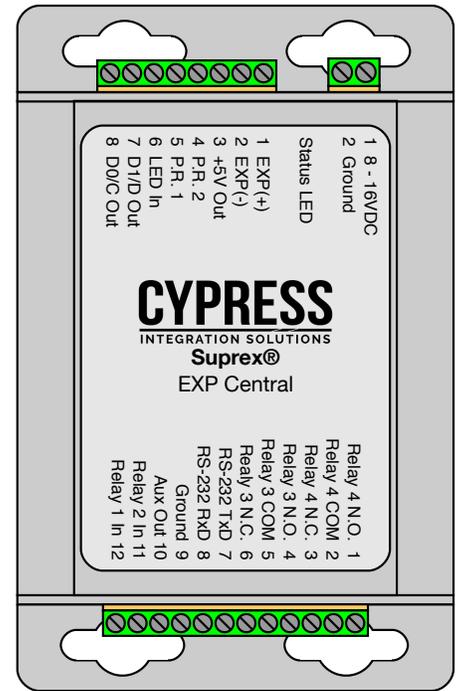
DIP Switch 1 sets the EXP to Test mode.

- DIP Switch 1:** Set the EXP unit to the manufacturer test mode. This mode is only for factory testing.
- DIP Switch 2:** When ON, the EXP unit is in Central mode. When OFF, the EXP unit is in Remote mode. Needs to remain set during operation.
- DIP Switches 3-4:** Set the interface type, based on the reader being used. Needs to remain set during operation. The default Interface is Wiegand.
- DIP Switches 6-7:** Set the Polling Address. Each EXP set needs to be set to a unique polling address. Needs to remain set during operation. Default is Address 1.

EXP Central Wiring Diagram



Pin Designations



EXP Remote Wiring Diagram

