

## Installing WinDSX Software

- Before Installing the Software you must login as a user with full administrative rights. The PC should have as a minimum Windows XP™ Professional with service pack 2, Windows Vista™ Business with service pack 1 or Windows 7™ Professional. See the “PC Requirements” doc for full details.
- On a Single PC load the software according to step 3. For a Local Area Network skip to step 4.
- To load the software, place the WinDSX CD in the CD-ROM Drive. Select “My Computer” on the desktop then right click on the CD-ROM Drive and select explore. Navigate to the Install Directory. Open the Install Directory and double click on Setup.exe. Follow the prompts and allow setup to install the software into the C:\WinDSX directory. For Windows 7 and Server 2008 right click on setup.exe and select “Run as Administrator”. Skip to step 6.
- If this is to be loaded on more than one PC all Workstations must have a Drive Mapped to the location of the shared database resource. The operator doing the software installation needs full administrator rights for the PC they are working on and the location of the shared database resource.
- The Software must be installed on each PC that is to run the WinDSX program. If this system is to use a Dedicated File Server the software should be loaded to the File Server first. The PC that is to be the Comm Server should be next or first if there is no dedicated file server. The Software is then loaded on each Workstation that is to run WinDSX. Follow the software installation instructions in step 3.
- When the software is loaded on each PC be sure that the first time you run the Database program (DB.EXE) that you set the DataBase Path on each PC to the location of the shared database resource. Also be sure to assign the PC a unique Workstation Name and Number other than 1 and restart the program.
- When installing DSX in Windows 7 or Server 2008 it is important to right click on the setup.exe and select “Run as Administrator”. The first time the program is started or any of the executables are launched the process should be to right click on the .exe or shortcut and select “Run as Administrator”.
- For a single PC you can use the TCP/IP address of 127.0.0.1 for the Comm Server.

## Updating the WinDSX Software

- To update the software, place the WinDSX CD in the CD-ROM Drive. Select “My Computer” on the desktop then right click on the CD-ROM Drive and select explore. Navigate to the Install Directory. Open the Install Directory and double click on Setup.exe. The program will prompt you to either Repair or Remove the current installation. Select Remove which uninstalls the program but leaves the folder and database in place.
- Run the Setup.exe again and this time it will install the new software. Be sure to install the software into the same folder as before or follow the prompts and allow setup to install the software into the C:\WinDSX directory. Always close the program on all PC's before updating software. Update the WinDSX Comm Server first and then all other workstations.

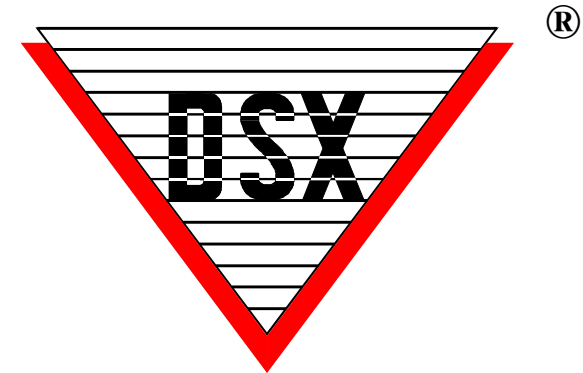
## Communications Connections

To use the communication chart below find what you are communicating from on the left followed by what you are communicating to on the top right. The intersection provides a number that corresponds to a wiring convention in the Legend.

Legend		TO													
		DSX-1021 Master	DSX-1022 Master	DSX-103x Master	DSX-1040 CDM w/Master	DSX-1035 Quadraplexor	DSX-485T	DSX-MCI	DSX-LAN	DSX-USB	DSX-1021 Slave	DSX-1022 Slave	DSX-103x Slave	DSX-1040 CDM w/Slaves	
1 = In to In, Tx-Rx, Rx-Tx						1	1	1			1	1	1	1	
2 = Out to In, Tx-Rx, Rx-Tx						1	1	1			1	1	1	1	
3 = Out to In, Tx-Tx, Rx-Rx						1	1	1			1	1	1	1	

FROM	DSX-1021 Master					1	1	1			1	1	1	1
	DSX-1022 Master					1	1	1			1	1	1	1
	DSX-103x Master					1	1	1			1	1	1	1
	DSX-1040 CDM w/ Master					1	1	1			1	1	1	1
	DSX-1035 Quadraplexor	2	2	2		2	2				2	2	2	2
	DSX-485T					3	3	3			3	3	3	3
	DSX-MCI	2	2	2		2	3	2			2	2	2	2
	DSX-LAN	2	2	2		2					2	2	2	2
	DSX-USB	2	2	2	2			2			2	2	2	2
	DSX-1021 Slave					3	3	3			3	3	3	3
	DSX-1022 Slave					3	3	2			3	3	3	3
	DSX-103x Slave					3	3	3			3	3	3	3
DSX-1040 CDM w/Slaves					2	2	3			2	2	2	2	

Legend
1 = In to In, Tx-Rx, Rx-Tx
2 = Out to In, Tx-Rx, Rx-Tx
3 = Out to In, Tx-Tx, Rx-Rx

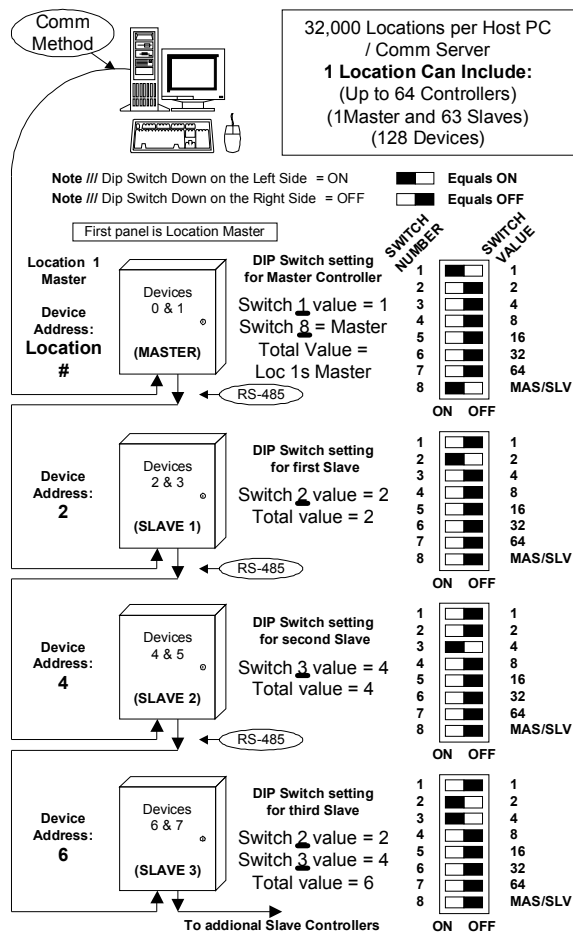


**DSX Access Systems, Inc.**

## DSX-1022 Quick Reference Card

**DSX Access Systems, Inc.**  
**10731 Rockwall Road, Dallas, Texas 75238**  
**800-346-5288 Voice 888-419-8353 Voice**  
**214-553-6147 FAX www.dsxinc.com**

## Typical System Addressing



**Note** /// Dip Switch at a Master panel must equal the Location #.

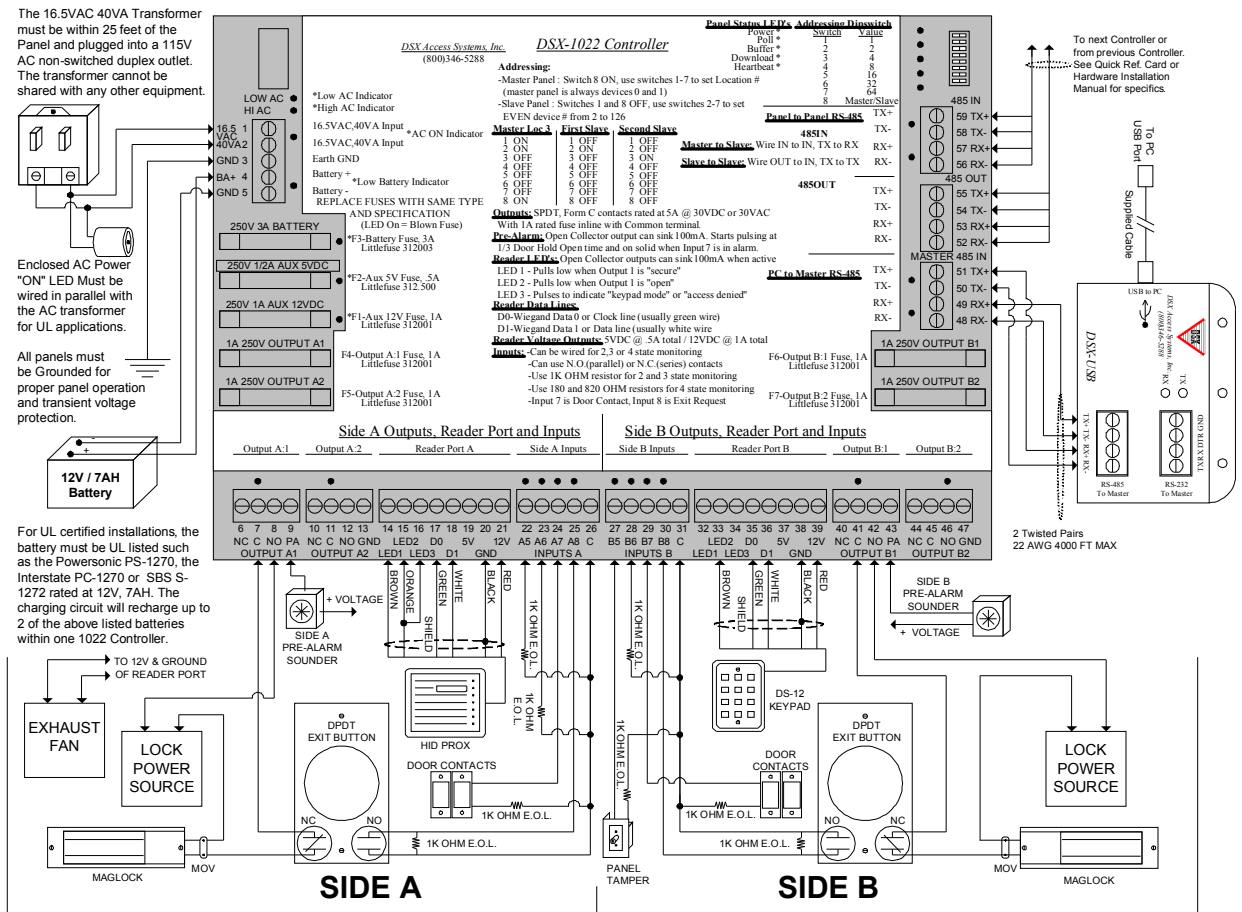
**Note** /// Dip Switch at a Slave panel must equal Device Address of Side A.

## Direct Connect Location # 1

Use this Diagram to assist you in setting the address switches on each DSX Controller.

- Turn the switches on and Add the values.
- The slave device address is always an even number.  
Side A = even number set by the switches.  
Side B = next highest odd number.
- The Master is always device address 0 & 1.
- To set the Master address above 127 set switches 1-7 off and set the address using KB2CW.exe from the WinDSX directory.
- When using the Template Database set the address switches 1 & 8 to the ON position.

## Typical Connections



**Reader Connection Definitions:**

**Pre-Alarm** connection is an open collector capable of ~100mA DC current. Pre-Alarm normally connects to a sounder located near a controlled door to indicate a door has been held open too long.

**LED 1** provides (~100mA) to the Reader Secure LED when "Secure".

**LED 2** provides (~100mA) to the Reader Open LED when "Open".

**LED 3** provides 2 (~100mA) pulses to the Reader Access Denied LED when there is an "Access Denied" condition.

**DATA 0** provides a Data 0 or "Clock" signal to the controller.

**DATA 1** provides a Data 1 or "Data" signal to the controller.

**+5VDC** provides up to 5VDC rated at 500mA to power Readers.

**NEGATIVE aka GND** provides the Reader with a Ground.

**+12VDC** provides 12VDC rated at 1A to power Readers.

Note: The +12VDC connection also can be used to provide voltage to other components, such as the DSX Modem. This power supply is shared between the Side A and the Side B Reader Ports.

**MOV Usage:** If voltages higher than 50 volts are to be switched through the Output relay contact, the individual MOV's (V1&V2, V3&V4, V5&V6 or V7&V8) should be removed from the specific Output .

**Output Extender:** Use the DSX-OX4 to provide 4 additional Form-C Output Relays. One Extender can connect to a DSX-1022 at the Master (485 IN) port of a SLAVE CONTROLLER. (Required Terminations include TX-RX, RX-TX & +12VDC & GND).

**Panel LED Definitions:**

**POLL** Flashes at a Slave to indicate Comm. to Master panel.  
**BUFFER** is On to indicate panel is storing all history events.  
**DOWN/LOAD** is On to indicate the panel is being programmed by the Master.  
**HEARTBEAT** Flashes to indicate the panel is operating.  
**AC LED** is On to indicate AC voltage is present.  
**LOW AC** is On when the AC at panel is approx. 15V or lower.  
**LOW BATTERY** is On when battery voltage drops to approx. 11.5V or lower.  
**INPUT LEDs** are On to indicate the input is normal.  
**OUTPUT LEDs** are On when the relay coil is energized.

**Input Circuit Types:**

**Type 0** - Can monitor NO and/or NC switches, req. 1k Ohm EOL, no Trouble.

**Type 1** - Can monitor NC switches, req. 1k Ohm EOL, Sensor open = Alarm, Circuit short = Trouble.

**Type 2** - Can monitor NO switches, req. 1k Ohm EOL, Sensor short = Alarm, Circuit open = Trouble.

**Type 3** - Can monitor NC switches, req. 180 and 820 Ohm EOLs, Sensor open = Alarm, Circuit open = Trouble, Circuit short = Trouble.

**Type 4** - Can monitor NO switches, req. 180 and 820 Ohm EOLs, Sensor closed = Alarm, Circuit open = Trouble, Circuit short = Trouble.

**Output Type:**

**Output Relays:** Provide Form C, Dry Contact, SPDT, rated at 5A at 30VDC or 30VAC. Contacts provided include NO, C, NC. Each Output Relay includes a 1A fuse inline with the Common terminal.

