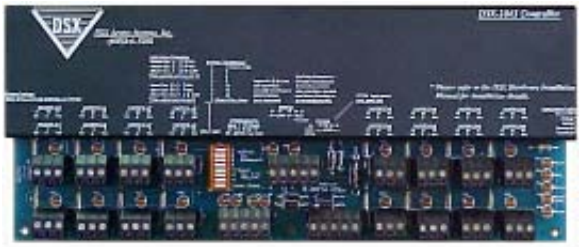
DSX-1043

Intelligent Output Controller

- **16 Programmable Form C Relays**
- **4 Time/Day Schedules per Output**
- **Output Control (Override) Input**
- **Two Inputs for supervision**
- **Flexible I/O Linking - Local & Panel to Panel**
- **Individual Intelligence / Scalable Architecture**
- **512K RAM / 512K Flash ROM**
- **Compatible with all existing DSX Controllers**
- **UL 294**



General Information

The DSX-1043 is an independent processing, 16 output, intelligent controller designed to be a cost effective building block in the DSX hardware platform that allows expansion in a scalable manner. Up to 64 outputs can be controlled from 1 enclosure for an efficient space saving package. Each DSX-1043 operates as a fully intelligent and independent controller that retains all data necessary for system operation in its own RAM. With its integral real-time Clock and Calendar it performs Time Zone control with Holiday overrides for outputs even when communication to the PC or other controllers is not available. The DSX-1043 carries a Limited 2 Year Warranty.

Controller Architecture

The DSX-1043 Intelligent Controller may be used in conjunction with all other DSX Controllers as a Master or Slave in the controller network. Any controller may be designated as a Master or Slave controller. The Master or Slave mode of operation is determined by the panel's dip switch settings. The first panel of each location is designated as the Master while all others would be considered Slaves. The Master is responsible for communications to the PC and to the Slave panels. Up to 64 Controllers can be used in a single Location.

Up to four DSX-1043 controllers can be placed in a DSX-1040E Enclosure along with a DSX-1040CDM Communication Distribution Module. The controller can be placed in a 1042PKG mixed with DSX-1042 and DSX-1044 Controllers. The DSX-1043 contains an AM186 processor, 512K of RAM, 512K of Flash ROM, and a Real Time Clock. The DSX-1043 allows all door and field wiring connections to be made via removable terminal blocks. The DSX-1040CDM receives RS-485 communications from a possible previous panel and regenerates the 4 wire RS-485 to the next DSX Controller. The DSX-CDM also distributes Slave Controller communication to those Slave panels located within the same enclosure.

Outputs

The DSX-1043 has 16 Programmable, Form-C, 5 Amp rated Relay Outputs. The on/off state of the outputs can be controlled by up to 4 Time Zones, I/O & Card Linking, and Manually from the PC. The Relay Override Input requires a closure for the outputs to operate. When the Override Input is open the outputs are de-energized. All Outputs have an LED for status.

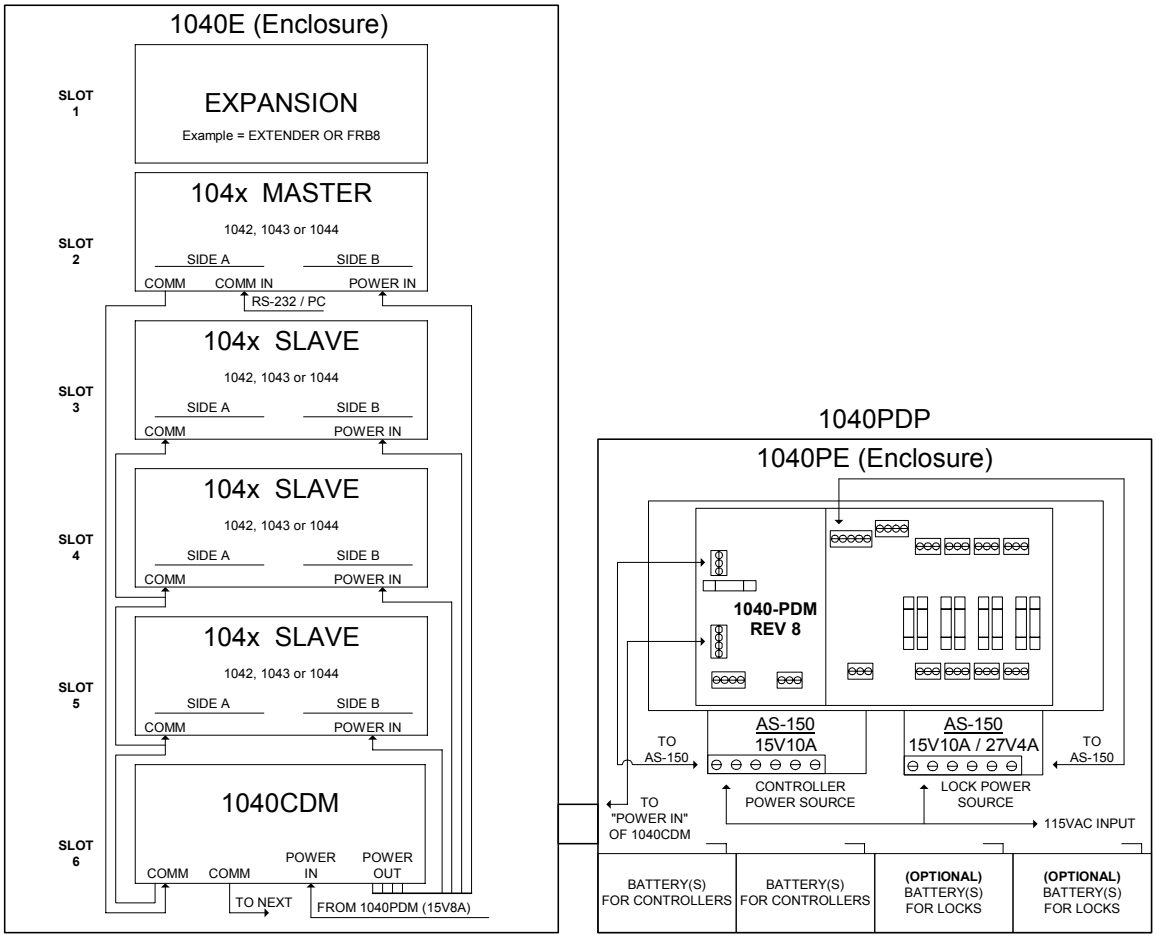
Inputs

The DSX-1043 has 2 non-supervised inputs for tamper monitoring. The armed status of each input can be controlled by up to 4 Time Zones, I/O & Card Linking, and Manually from the PC.

System Power

Each DSX-1043 is powered from an individually fused 12 volt output from the DSX-1040CDM distribution module located in the same DSX-1040E enclosure. The DSX-1040CDM receives power from the DSX-1040PDP Power Distribution Panel. The DSX-1040PDP houses the controller and lock power supplies, backup batteries, and fused power distribution module. The DSX-1040PDP is comprised of a DSX-1040PE Enclosure, an AS-150 15VDC power supply for the Controllers, an AS-150-[15] or [27] for either 12V or 24V locks, and a DSX-1040PDM Power Distribution Module.

DSX-1043 Basic Architecture



DSX-1043 Specifications

Size
DSX-1043 11" W x 4.5" H x 1.5" D

Weight
DSX- 1043 1.6 lb.

Finish
Black Powder Coat with White Silkscreen on Enclosure and Black Enamel on DSX-1043.

Temperature
Operating 32 to 131 F
Storage -35 to 150 F

Humidity
Operating 0 to 95%, relative

Power Requirements
DSX-1043 13.5 VDC @ 800ma from 1040CDM

Inputs
Non-Supervised 2
2 Inputs are used for standard point monitoring.
Relay Override Input 1
UL Installations require a Tamper Switch to be connected to an Input programmed with a 24hr Time Zone.

Outputs
Form C Relays 16
Relay Output Ratings 5 AMP 30 VDC

Communication Ports
RS-232 In 1 Master to PC
RS-232 Out 1 Panel to DSX-1040CDM

Processor
AM186 20Mhz

RAM/ROM Memory
Flash ROM 512K
Standard RAM 512K

Warranty
Limited 2 Years

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