



DSX - PC Master Software

Overview

The PC Master (PCM) software is a program that is designed to allow a PC to perform the polling and communications duties normally handled by a master panel. A computer running the PCM software will take the place of the master panel. This arrangement provides three advantages:

1. Communications to the slave panels can be routed through a serial port or through the TCP/IP network.
2. Greater control can be exerted over the master to slave polling frequency. This will allow the system to function over slower communications methods such as Radio modems and slow networks.
3. The communications to the slave panels can be separated into several different channels that operate simultaneously. This multi-threaded communication can provide a substantial increase in the rate of data collection and data distribution.

Requirements

1. PCM is installed on a PC that conforms to the standard PC Requirements of WinDSX. It can be used on the Comm Server PC in small applications as long as system performance is not hindered by it.
2. The PC running PC Master, the Comm Server and all LAN serial devices must have a static TCP/IP address.

3. There can be any number of panel clusters each with its own LAN Module. For best performance there should be no more than 8 Intelligent Controllers on each LAN or serial connection (cluster) of PC Master.

Operation

The Comm Server communicates to PC Master over the network. It downloads the location data to PC Master and supervises the communication to it just as if it were a Master Controller. The PC Master then communicates and Polls the slave panels just like a Master Controller. The only difference is the Slave controllers are connected to the Network using LAN Serial Devices such as the one manufactured by DSX.

The PCM can communicate with up to 63 Slave controllers each with its own LAN connection or multiple Slave Controllers can be connected to the same LAN serial device (cluster). The PCM supervises the communication to these LAN connected Slave panels and performs all global communication duties such as Linking and Anti-Passback.

Each PCM represents 1 Location. Multiple PCM computers can be used to allow the Comm Server to communicate with more than 1 Location via the LAN/WAN.

PC Master Typical Applications

