

## SYSTEM 3505 NETWORK OPTION



**010001-0022 NETWORK OPTION, TWO SYSTEMS, RS-485** For two System 3505s connected to network. Includes two RS-422/485 configurator cards and software.

**010001-0085 NETWORK OPTION, TWO SYSTEMS, AUDIO MODEM** For two System 3505s connected to network. Includes 2 audio configurator cards and software.

**010001-0086 NETWORK OPTION, EA. ADD'L SYSTEM, AUDIO MODEM** Includes one Audio Modem configurator card and software. \*

**010001-0024 NETWORK OPTION, EA. ADD'L SYSTEM, RS-485** Includes one RS-422/485 configurator card and software.\*

**010001-1022 NETWORK OPTION, TWO SYSTEMS, RADIO** For two System 3505s connected to network. Includes two telemetry radio units 2/4 Watts, radio configurator cards and software. (Specify frequency.)\*

**010001-1024 NETWORK OPTION, EA. ADD'L SYS, RADIO** Includes one telemetry radio unit 2/4 Watts, radio configurator card and software. (Specify frequency.)\*

**010001-2024 NETWORK OPTION, EA. ADD'L SYSTEM, FIBER** Includes one multi-mode fiber optic configurator card and software.\*

**010001-2025 NETWORK OPTION, TWO SYSTEMS, ETHERNET** For two System 3505s connected to network. Includes two TCP/IP configurator cards and software.

\* **SYSTEM 3505 not included.**

**NFPA-72 Compliant**

### SYSTEM DESCRIPTION

Network application allows up to 99 System 3505 units to share alarm information. Any System 3505 is designated the Master; all other units are designated Slaves. All points, (digital dialers, EOL, RPI, etc.) send alarm information (ALARM, TROUBLE, SECURE) to the Master. The information is then shared by all the Slave System 3505 units. The user can elect to filter out unwanted alarm responses at specific slaves. In addition to sharing alarm information, the user can also elect to enter user text messages at one unit and have them sent to all units connected to the network. All Slaves can be synchronized to the master unit time clock.

The standard configurator card is the RS-485. Other protocols (fiber optic, audio modem, radio polling, Ethernet) are available. Please note: All System 3505 units in a network application **must** have the same program revision.

### OPERATION

The System 3505 units are programmed to be Masters or Slaves by entering the Network SETUP Mode. The Master unit is declared and then it is programmed with all the Slave numbers with which it is expected to communicate. The Network Setup Mode on the Master System 3505 allows additions and deletions of slaves as needed.

A Line Driver Rack is recommended for applications connecting several System 3505s. Line drivers provide isolation between all data lines and allow a variety of data communication protocols to be used in one system. Also required if mixing communication protocols, i.e. RS-485 with Audio or Fiber, etc. A line Driver Rack with a Style 7 via two independent line cards is also available. This allows the mix and match of any two data formats. The Slave unit requires two configurator cards, unless units communicate over Ethernet or radio except when Dual Network is desired.

### FILTERING ALARMS AND PRIORITY LEVELS

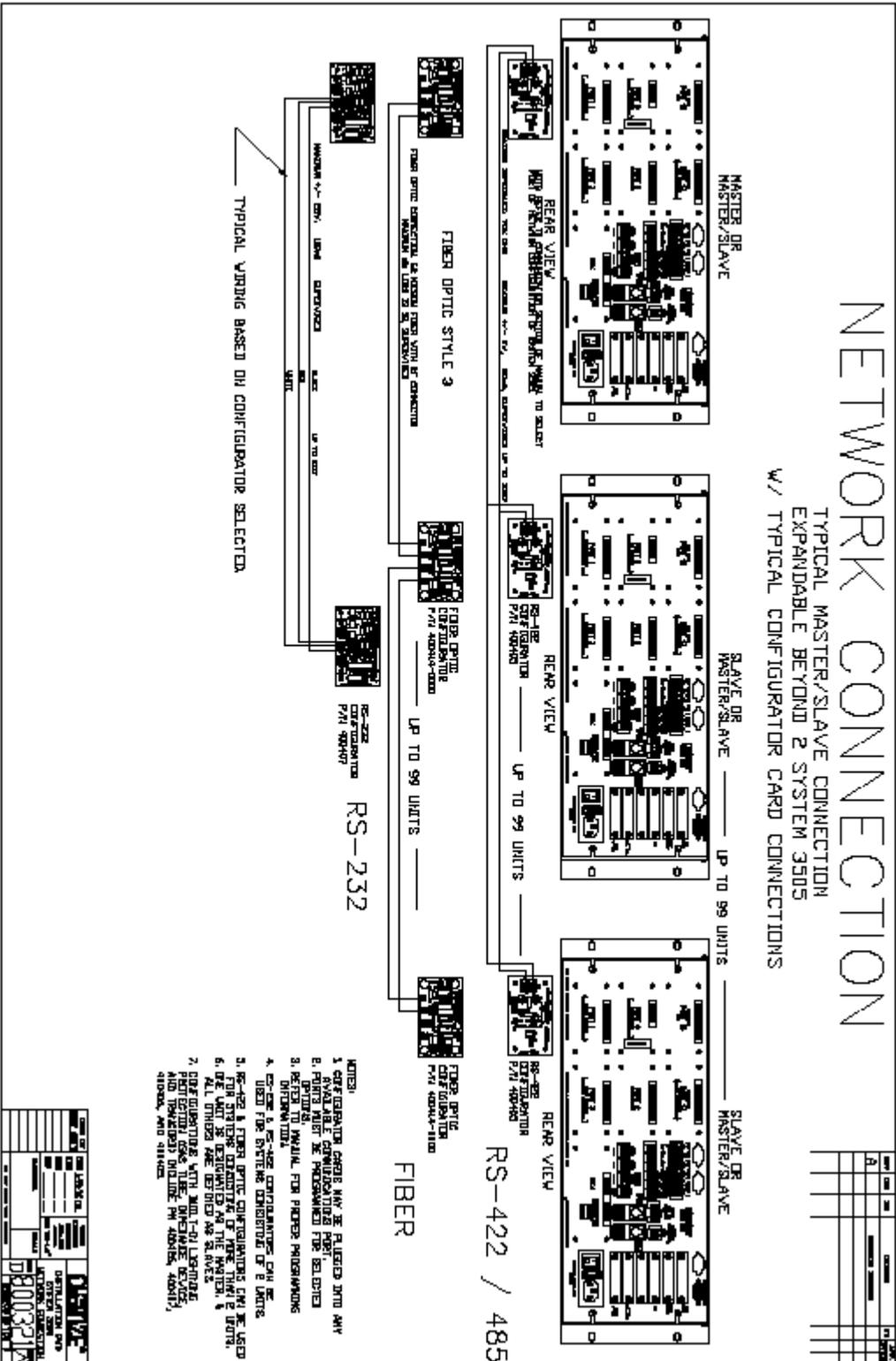
The Slave System 3505 may be programmed to filter priority levels. The Master and Slave System 3505 units may be programmed to send or receive Acknowledge (ACK) or Clear (CLR) conditions. Certain Slave units may be programmed to receive an alarm for the purpose of information only. The ACK and CLR signal will Acknowledge or Clear the same condition on all units if the feature is enabled. Thus, if two or more System 3505 units are used in dispatch mode, all System 3505 units can ACK or CLR the same condition.

The System 3505 units equipped with Solid State Transmitters can be programmed to send and receive SST signals. The System 3505 units with telegraph option can be programmed to Transmit BOX rounds.

# TYPICAL HOOKUP

## NETWORK CONNECTION

TYPICAL MASTER/SLAVE CONNECTION  
EXPANDABLE BEYOND 2 SYSTEM 350S  
W/ TYPICAL CONFIGURATOR CARD CONNECTIONS



- NOTES:
1. CONFIGURATOR CARDS MAY BE PLUGGED INTO ANY AVAILABLE CONFIGURATION PORT.
  2. PORTS MUST BE PROGRAMMED FOR DESIRED OPERATION.
  3. RS-232 CONFIGURATOR CARDS CAN BE USED FOR SYSTEMS OPERATING AT THE MASTER & ALL UNITS MUST BE DESIGNATED AS SLAVES.
  4. RS-422 & FIBER OPTIC CONFIGURATIONS CAN BE USED FOR SYSTEMS OPERATING AT THE MASTER & ALL UNITS MUST BE DESIGNATED AS SLAVES.
  5. DIFFERENTIATION WITH 300-101 LEADERS AND 300-102 LEADERS IS REQUIRED FOR MASTER AND SLAVE IDENTIFICATION AND IS REQUIRED FOR ADDRESS, ADDRESS, AND OTHER.

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