



by Honeywell

NetSOLO®

Broadband

Description

NetSOLO® Broadband is a revolutionary advance in fire-detection and emergency voice evacuation system design. NetSOLO® Broadband employs the proven technology of the 7100 Series fire alarm control panel and expands it to accomplish emergency multi-channel voice evacuation.

It is a true peer-to-peer, token passing, networked system capable of supporting up to sixty-four (64) individual nodes.

All systems status, control-by-event sequences, audio voice paging, and fire fighter telephone signals are sent between nodes over just a single pair of wires or fiber-optic cable.

Each NetSOLO Broadband node can be spaced along the network a maximum distance of 3,000 feet (914.4 m) over an unshielded twisted-pair of wires or up to an 8dB loss using fiber-optic cable. Built-in isolation at each node permits Style 4, 6, and 7 network configurations.

NetSOLO Broadband is capable of the most sophisticated sequences of operations. The Field Configuration Program (FCP-NetSOLO) is based on Boolean logic statements providing AND, OR, NOT, and XOR logic operators. These operators can be combined to produce additional Boolean operators such as NAND, NOR, XNOR, etc. A comprehensive set of timing functions can also be attached to any input/output logic statement for staggered reset of fan control relays, time-delayed alarm activation, automatic system silence, etc.

The 7100 NetSOLO is a microprocessor-based fire alarm control panel with two (2), analog, addressable signaling line circuits (SLC). Each 7100 is equipped with an Intelligent Network Interface Module for unshielded, twisted-wire and fiber-optic cable (INI-7100 FO). Options include an integral Digital Alarm Communicator Transmitter (DACT) supporting the most popular reporting formats.

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Intelligent, Networked, Multi-Channel Fire Alarm Control and Emergency Voice Evacuation System



NetSOLO Broadband

Features

- All communication signals and control-by-event sequences transmit over a single pair of twisted, unshielded wires or fiber-optic cable
- Distributed Architecture, including Style 7 wiring configurations, allow system components to continue normal operation with no loss of function during single line fault conditions
- Network data transfer rate at 625K baud
- Ideal for a wide range of complex system applications including high-rise or campus installations
- Integrates 7100 NetSOLO Series fire alarm control panels, INX transponders and INCC command centers to create a complete audio evacuation system with up to sixty-four (64) nodes
- Each INCC supports up to sixteen (16), ASM-16 addressable switch modules for a total of 256 switches in which the software can be programmed separately
- Graphic Network Annunciator (NGA) (optional)
- Remote 48 LED Driver Module (ANU-48) (optional)
- Redundant command centers with microphone and fire-fighter's handset easily configured by adding INCCs

An ISO 9000-2000 Company

SIGNALING



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9020-0551 Rev. D page 1 of 5

Features (Continued)

- State-of-the-art digital signal processor (DSP) technology for efficient audio compression and filtering
- Software-programmable, multi-channel digital audio applications
- Up to 150 watts of audio power (three (3), AM-50 amplifier modules) with an additional 50 watts of standby power in each intelligent network transponder (INX) cabinet)
- Each AM-50 amplifier module provides two (2), individually activated speaker circuits supplying 50 watts total
- Sixteen (16) message capacity with up to 3 minute duration per INX
- Messages easily field-configurable with a laptop computer
- Advanced Boolean Logic-based programming such as AND, OR, NOT, NOR, time delay, and calendar functions configurable through computer programming

Description (Continued)

The Intelligent Network Command Center (INCC) serves as the point of interface between an operator and the system's audio evacuation, fire fighter intercom and building network. The INCC occupies a single address on the NetSOLO Broadband network. A typical INCC assembly consists of the following:

- An Intelligent Network Interface-Voice Gateway (INI-VG) module (fiber-optic or unshielded twisted-pair).
- INI-VGC-UTP (unshielded twisted-pair only).
- One or more Addressable Switch Modules (ASM-16).
- Optional Graphic Annunciator (NGA).
- Remote 48 LED Driver Module (ANU-48).

Options include a voice paging microphone and a fire fighter's handset connecting to the INI-VGC. Each INCC can support up to sixteen (16), ASM-16 modules. Each ASM-16 has sixteen (16), push button switches for a maximum capacity of 256 switches per INCC command center. Each switch has three (3), associated LEDs, colored green, yellow, and red. These switches and their LEDs are fully programmable to serve any system function desired. They can control audio speaker circuits, notification appliance circuits, addressable relay outputs, fire fighter phone control circuits. Switches may also be customized for any special application that might be required.

Multiple INCCs can be configured into the NetSOLO Broadband network to serve as a completely independent command center for their local area or serve as remote command centers mimicking in part or in whole the function of a main command center.

The Intelligent Network Transponder (INX) acts as a network audio transponder for the NetSOLO Broadband Network. The INX transponder serves as the point of distribution for the system's audio and fire fighter telephone circuits and occupies a single node along the NetSOLO network.

A typical INX assembly consists of an Intelligent Network Interface-Voice Gateway (INI-VGX) module, a PM-9/PM-9G power supply, and up to four (4), AM-50 amplifiers. The INX transponder occupies a single address on the network and provides termination points for the network connection using either a pair of twisted, unshielded wire (12 AWG max.) or fiber-optic cable.

The INI-VGX uses advanced Digital Signal Processing (DSP) technology for audio compression and filtering allowing the NetSOLO Broadband to produce the clearest audio possible while conserving network bandwidth for instantaneous response. During voice paging and fire fighter communication, background noise is automatically filtered. This feature allows increased audibility and eliminates the need for push-to-talk devices.

The INI-VGX can accommodate up to sixteen (16) different messages with a total combined duration of three minutes. Each message can be installed in the field using a laptop computer. Available message options are voice messaging or evacuation tone.

The INI-VGX also provides a fire fighter phone riser and addressable signal line circuit that connects to multiple phone jacks or warden stations through as many as sixteen (16), AOM-TELF modules. In addition, the INI-VGX SLC can support up to thirty-two (32), speaker circuits using the AOM-2SF for single channel applications.

The INX can contain four (4), 50 watt, 25 V_{RMS} audio amplifiers, each with two (2), separate speaker circuits that can be wired Style Y (Class B) or Style Z (Class A). Each amplifier produces its own tone or message independently of other system amplifiers. Thus, an INX transponder can simultaneously produce three (3) audio channels. Each INX transponder can support three (3), AM-50s as main amplifiers and support one (1), AM-50 as a fail-safe backup amplifier.

The INX transponder receives its power from a PM-9/PM-9G nine ampere, filtered, switching power supply providing 24 VDC nominal operating voltage. The PM-9/PM-9G has an integral standby battery charger capable of recharging up to 55 A/H batteries. The INX cabinet can house up to 12 A/H sized batteries.

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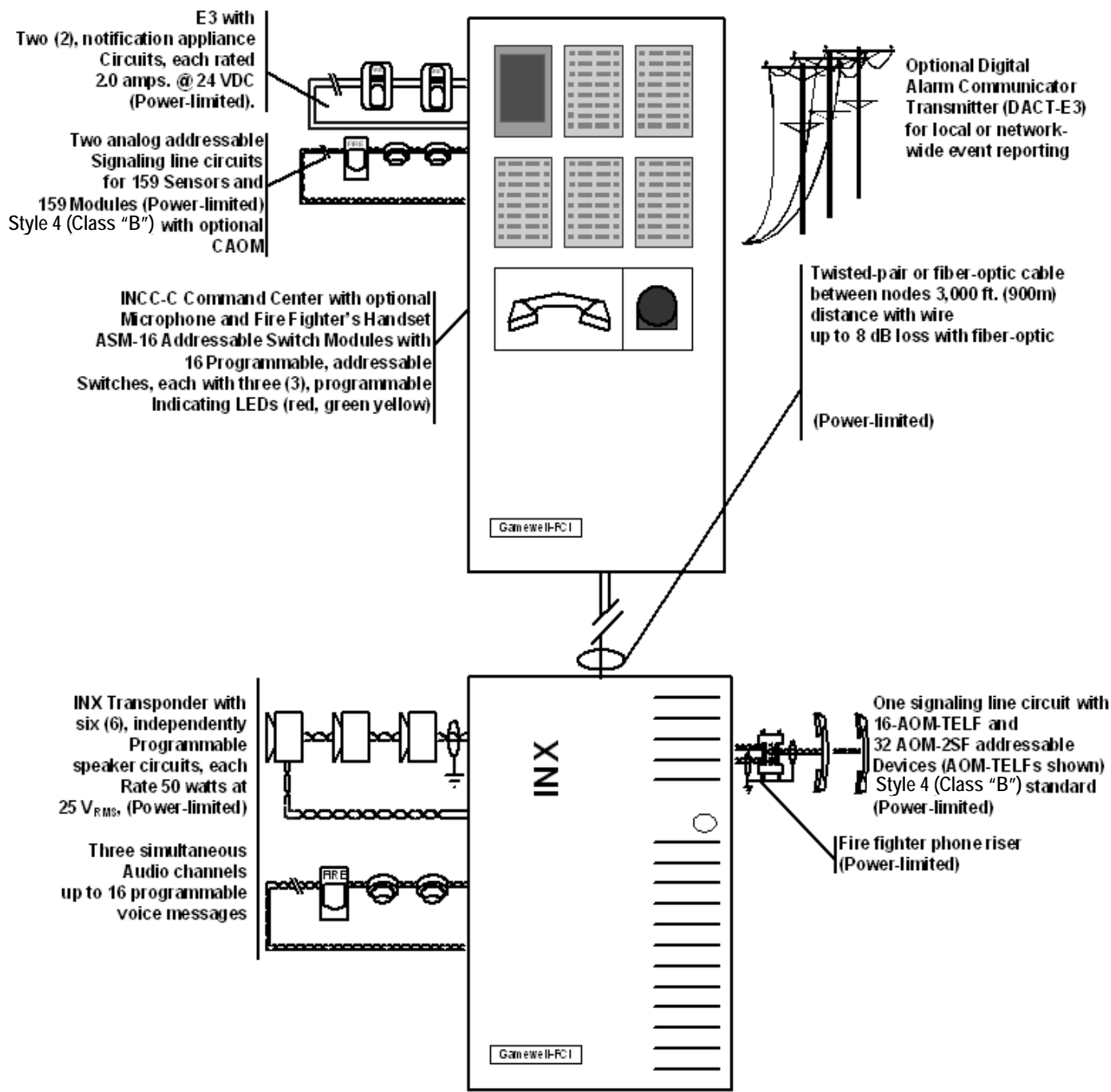


Figure 1

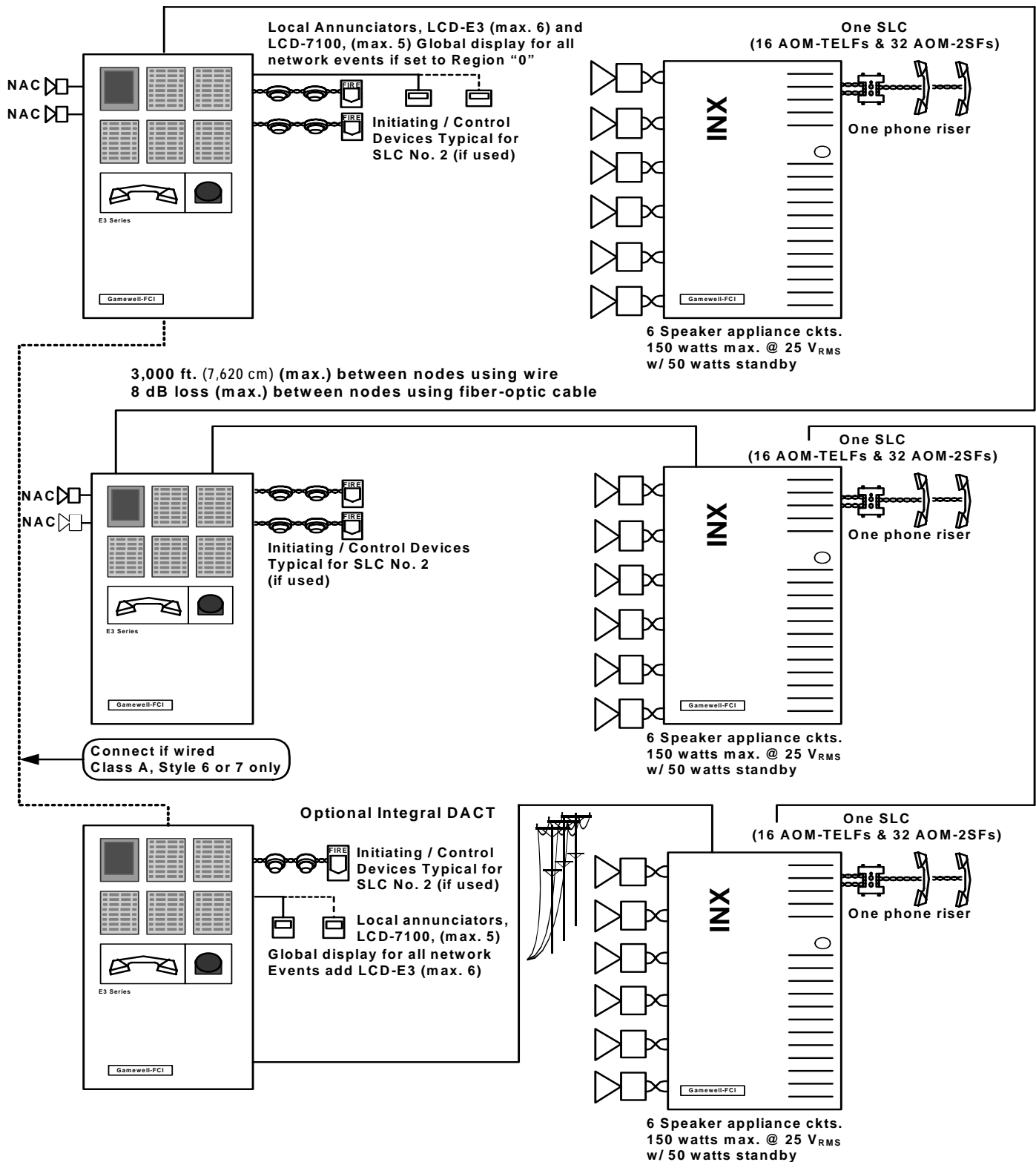


Figure 2

Specifications

Detailed product specifications may be found in:

9020-0542	INCC Intelligent Network Command Center Data Sheet
9020-0637	E3 Series™ Control Panel Data Sheet
9020-0541	INX Intelligent Network Transponder Data Sheet

Ordering Information

E3 Control

Part Number	Description
ILI-MB-E3	Intelligent Loop Interface-Main Board
LCD-E3	LCD Keypad Display
PM-9/PM-9G	Power Supply
RPT-E3	Network Repeater
DACT-E3	Digital Alarm Communicator Transmitter
LCD-7100 (Optional)	Remote Serial LCD Display

INCC Intelligent Network Command Center

Part Number	Description
INI-VGC	Command Center Voice Gateway
INI-VGC-UTP	Voice Gateway for unshielded twisted-pair wire only
ASM-16	Programmable Switch Module (occupies single slot of inner door)
NGA	Network Graphic Annunciator
ANU-48	Remote LED Driver
INCC-IDT	Inner door w/one double slot for INCC-TEL fire fighter handset and 4 single slots

Ordering Information (Continued)

INCC Intelligent Network Command Center (Continued)

Part Number	Description
INCC-ID	Inner door w/6 single slots
INCC-CABR	INCC backbox (black) with red outer door, 19" H x 19" W x 4" D (48 x 48 x 10 cm)

Optional Accessories

Part Number	Description
ANU-48	Remote LED Driver
INCC-TEL	Fire Fighter Telephone Handset (requires INCC-IDT Inner Door)
INCC-MIC	Paging Microphone Module (occupies one single slot of Inner Door)
INCC-BP	Command Center Blank Face Plate (occupies one single slot of Inner Door)

INX Intelligent Network Transponder

Part Number	Description
INX-VGX	Transponder Voice Gateway
PM-9/PM-9G	INX 9 ampere Power Supply
AM 50	INX 50 Watt amplifier
INX-CAB	INX 19" x 19" x 4" (48 x 48 x 10 cm) Backbox with Black Door
INX-CABR	INX 19" x 19" x 4" (48 x 48 x 10 cm) Backbox with Red Door

For additional information on the cabinets, refer to the E3 Series® Cabinets data sheet (Part Number: 9020-0649).

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9020-0551 Rev. D page 5 of 5