

by Honeywell

Description

The INCC Intelligent Network Command Center is a component of the E3 Series® Expandable Emergency Evacuation and E3 Series® Broadband Audio Evacuation System. The INCC Command Center serves as the point of interface between an operator and the system's audio evacuation, fire fighter intercom, and building control circuits. The INCC occupies a single node along the E3 Broadband network and is connected by a single pair of twisted, unshielded wire, fiber-optic cable or any combination of the two. Each E3 Broadband node can be spaced along the network at a maximum distance of 3,000 feet (914.4 m) or up to an 8dB loss using fiber-optic cable. Built-in isolation at each node permits Style 4, Style 6, and Style 7 network configurations.

The E3 Series Broadband Audio Evacuation System is a peer-to-peer, self-regenerating, token ring network comprised of up to sixty-four (64), individual nodes. In addition, the Addressable Node Expander (ANX) board expands the network to one hundred and twenty-two (122) nodes. The E3 Broadband employs proven technology and extends it to accomplish emergency voice evacuation, 2-way Fire Fighter communications, and building control applications. It is unique in the industry in requiring only a single pair of wires or a fiber-optic cable connection between nodes to convey all fire alarm, digital voice, fire fighter communications, paging, and building control signals.

A typical INCC assembly consists of the following:

- an Intelligent Network Interface-Voice Gateway (INI-VGC) Module
 - one or more Addressable Switch Modules (ASM-16)
 - one Network Graphic Touchscreen Annunciator (NGA)
- The INCC Command Center's INI-VGC module also provides connections for an optional emergency voice page microphone as well as a Fire Fighter telephone handset.

The INI-VGC is a fully digital voice/tone generator using state-of-the-art Digital Signal Processing (DSP) technology to produce the clearest, most audible signal possible. The INI-VGC provides an output to a local speaker for message verification and testing. It is ideal for a wide range of complex System Applications including high-rise or campus installations.

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Intelligent Network Command Center



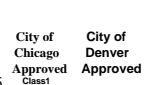
INCC

Features

- Listed under UL® Standard 864, 9th Edition
- All communication signals and control-by-event sequences over twisted, unshielded pair of wires or fiber-optic cable including:
 - Audio Evacuation
 - Fan Control & Damper Shutdown
 - Voice Paging
 - Door Closures
 - Fire Fighter Intercom
 - Fire Alarm and Control Devices
 - Elevator Control
 - Horn/Stroke Circuit Activation
- Distributed architecture, including Style 7 wiring configurations, allow system components to continue normal operation with NO loss of function during single line fault conditions
- Integrates with INX transponders and additional INCC command centers to create a complete audio evacuation system with up to (122) nodes
- Each INI-VGC supports up to sixteen (16), ASM-16 switch modules for a total of 256 switches
- INI-VGC connects to a voice page microphone and fire fighter's handset
- Redundant command centers with microphone and fire fighter's handset easily configured by adding additional INCCs
- Advance Boolean logic-based programming such as AND, OR, NOT, NOR, time delay, and calendar functions configurable through computer programming
- Advanced digital signal processor (DSP) technology for efficient audio compression and filtering. Uses network data transfer rate at 625K baud

An ISO 9001-2000 Company

SIGNALING



GAMEWELL-FCI

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Description (Continued)

Each Addressable Switch Module (ASM-16) has sixteen (16), push-button switches that can be programmed to serve any function the application demands. An ASM-16 switch can be programmed as any of the following:

- Speaker Circuit switch
- Fire Fighter Phone switch
- Auxiliary Control switch using a bank of three (3), switches (one switch each for On-Off-Auto functions)
- Switches with the following custom-defined functions"
 - System Reset
 - System Silence
 - System Acknowledge
 - Alarm Tone On
 - All-Call
 - Phone Patch
 - Lamp Test
 - Manual Select

Each ASM-16 switch also has three (3), fully programmable status-indicating LEDs in Red, Yellow, and Green. The NGA LCD Graphic Annunciator is a powerful, yet attractive component of the Gamewell-FCI emergency voice evacuation systems. The bright, back-lit 1/4" VGA display is supplemented with an intuitive, easy-to-use touch-screen interface that provides the following features:

- Up to 512 user-defined messages may be configured
- Messages may be up to 77 characters in length
- Display font and color may be selected for each message

The INCC assembly is enclosed in one or more compact 19" wall-mounted enclosures. Its modular construction provides complete flexibility in system design. Each cabinet can contain the INI-VGC and up to six (6), ASM-16 modules. If more ASM-16 modules are required, they may be mounted in additional INCC cabinets. As many as six (6), ASM-16 modules can fit in the INCC cabinet. If a Microphone module is required, it would take the place of one ASM-16 position. A Fire Fighter handset would take the place of two ASM-16 positions. An INI-VGC can support as many as sixteen (16), ASM-16s for a total of 256 completely programmable switches.

The INCC operates on 24 VDC that can be sourced from the non-resettable auxiliary output of its associated power supply such as the PM-9 or PM-9G.

A complete E3 Audio Evacuation System can be assembled from the following three (3) different panels. This modular approach greatly simplifies the design and installation process and can be configured to meet the exact needs of the project.

- one or more E3 Series fire alarm control panels
- one or more INCC Audio Evacuation Command Centers
- one or more INX transponders

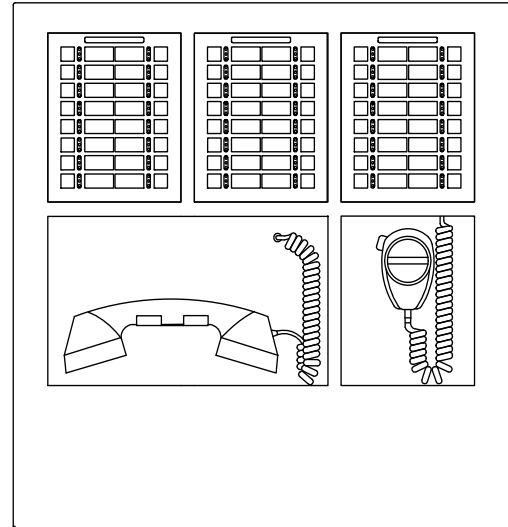


Figure 1 INCC with MIC and Handset

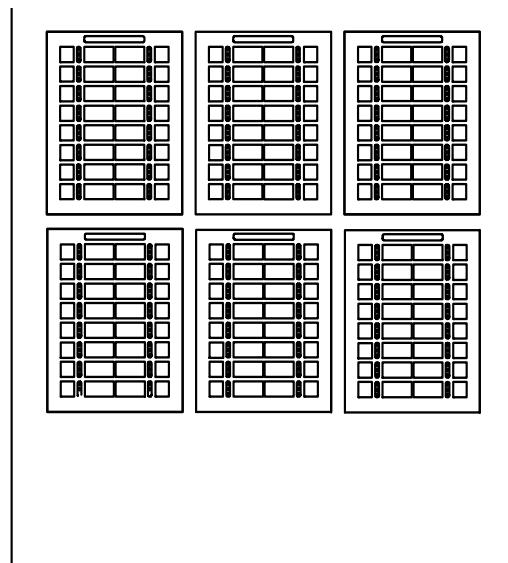


Figure 2 INCC with Six (6) ASM-16s

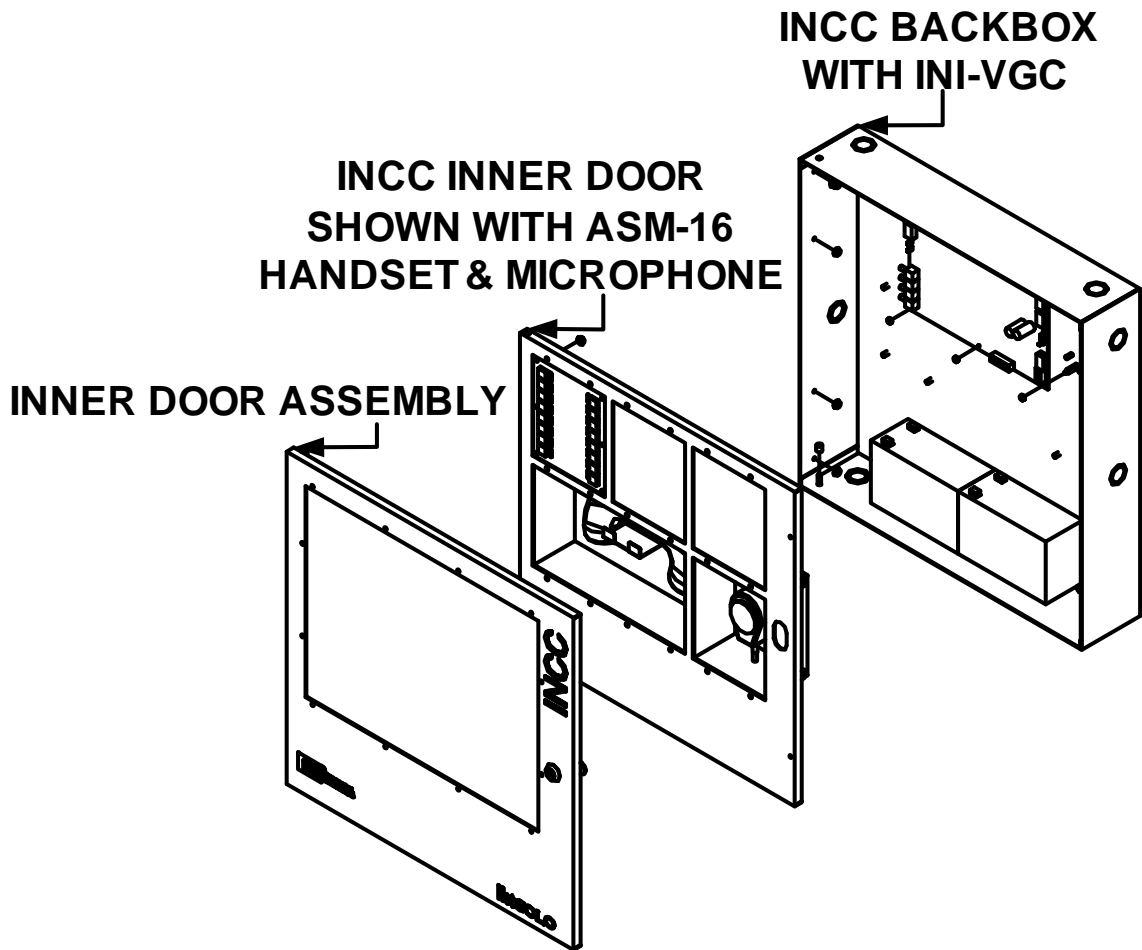


Figure 3 INCC Assembly

Specifications

INI-VGC

Operating Voltage: 24 VDC (nominal)

Operating

Current: 0.150 amp. supervisory and alarm

Operating

Temperature: 32° to 120° F (0° to 49° C)

Relative Humidity: 0 to 93% (non-condensing)

Protocol Asynchronous with half-duplex data flow

Speed RS-232 up to 64 KBps

RS-485 up to 128 KBps

St connectors Up to 200 microns (multimode), optimized for 62.5/125 microns

ASM-16

Operating Voltage: 24 VDC (nominal)

Operating

Current: 0.005 amp supervisory
0.005 amp alarm plus 0.003 amp per LED activated (0.195 amp max.)

Operating

Temperature: 32° to 120° F (0° to 49° C)

Relative Humidity: 0 to 93% (non-condensing)

Ordering Information

Part Number

Description

Intelligent Network Command Center

INI-VGC

Command center voice gateway

ASM-16

Programmable switch module (occupies one single slot of inner door)

INCC-MIC

Paging microphone module

INCC-TEL

Firefighter telephone module

INCC-IDT

Inner door with one double slot for INCC-TEL fire fighter handset and 4 single slots

INCC-ID

Inner door with six (6), single slots

INCC-CAB

INCC backbox (black) with black outer door

Dimensions:

19" W x 19" H x 4" D

(48 W x 48 H x 10 D cm)

INCC-CABR

INCC backbox (black) with red outer door

Dimensions:

19" W x 19" H x 4" D

(48 W x 48 H x 10 D cm)

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