INI-VG Series (Third Generation)

Intelligent Network Interface-Voice Gateway

Product Installation Document

CAUTION 1: STATIC SENSITIVE EQUIPMENT:
THIS EQUIPMENT IS SENSITIVE TO STATIC ELECTRICITY. IT MAY BE DAMAGED IF NOT PROPERLY HANDLED. TRANSPORT AND STORE THIS UNIT IN A STATIC-SHIELDING BAG.
FAILURE TO OBSERVE THIS REQUIREMENT COULD CAUSE LATENT DAMAGE TO THE EQUIPMENT WHICH MIGHT NOT MANIFEST ITSELF UNTIL AFTER THE EQUIPMENT IS PLACED IN SERVICE.

CAUTION 2: DISCONNECT ALL POWER:
REMOVE ALL SOURCES OF POWER BEFORE YOU SERVICE, REMOVE OR INSTALL ANY UNITS.

Section 1: Description

The INI-VG Series sub-assembly provides the audio network interface for the E3 Series® Expandable Emergency Evacuation and Mass Notification Systems. It provides the connection for the remote microphone, fire fighter telephone, one signaling line circuit, and supports the connection for one NGA sub-assembly.

NOTE: INI-VG Series (Third Generation-Disclaimer):
The INI-VGC, INI-VGX, and INI-VGE have been redesigned to allow for fiber-optic plug-in modules. To provide fiber-optic connectivity, either an FML-E3 (Multi-Mode Fiber-Optic Module) or an FSL-E3 (Single-Mode Fiber-Optic Module) must be used per the network channel to transmit/receive. The INI-VGC, INI-VGX, and INI-VGE, in combination with the FML-E3 or FSL-E3, replaces the INI-VGC-FO, INI-VGX-FO, and INI-VGC-FO.
For information on the INI-VGC-FO, INI-VGX-FO, and INI-VGE-FO, refer to the INI-VG Series Installation Instructions, P/N: 9000-0549.
For information on the FML-E3 and FSL-E3, refer to the FML-E3/FSL-E3 Installation Instructions, P/N: LS10046-000GF-E.

Because the INI-VG Series sub-assembly is a modular design, it can be used in any type of system configuration to function as a Fire Command Center and/or ACU, LOC-TEL or LOC-MIC for the Mass Notification System. This sub-assembly is factory programmed to operate as any of the following network interfaces and accommodates either fiber-optic cable or unshielded twisted-pair copper-pair wires.

- INI-VGC is the network interface for the E3 Series Broadband Voice Command Center System. It provides the expanded switch controls for the Autonomous Control Unit (ACU).
- INI-VGE is the network interface for the E3 Series Classic Voice Command Center System. It provides one audio channel for the Bulk Amplification Systems used in Fire applications only.
- INI-VGX is the network interface for the E3 Series Broadband Voice Command Center System. It controls up to four external AM-50 Series amplifiers (with a combined total maximum audio output of 150 Watts) for the Distributed Amplification Systems.



Figure 1.1 INI-VG Series (Third Generation)

1.1 INI-VG Series (Intelligent Network Interface-Voice Gateway)

Use the INI-VG Series as the E3 Network interface for the Voice Evacuation Command Center (INCC). The INCC is the primary component for the ACU that provides recorded message control and live voice audio paging in the Mass Notification System. The INI-VG Series provides the following functions:

- Provides the connection to the system's microphone and fire fighter's handset.
- Includes the following:
  - One (Class B) Signaling Line Circuit (SLC) with a capacity of up to sixteen AOM-TELF (fire fighter's communication circuit) sub-assemblies.
  - Thirty-two AOM-2SF (single-channel, speaker circuits).
- The ARCNET Communication circuits are wired in a Class X Configuration.
- Contains one fire fighter communications riser.
- Stores up to sixteen custom digital tones/messages with a combined total length of three minutes.

NOTE: Alert Tone Requirement:
Fire Evacuation or Emergency Messaging require a separately produced automatic alert tone of 1 to 3 seconds duration. This tone is followed by a recorded message to any or all zones in the system that is repeated a minimum of three times. For additional information, refer to www.gamewell-fci-esd.com.

Table 1.1.1 describes the functionality of the INI-VG Series (First, Second and Third Generations).

INI-VGC (Third Generation)	INI-VGE (Third Generation)	INI-VGX (Third Generation)
• Monitors and controls up to sixteen ASM-16 or ANU-48 modules, 16 AOM-TELF modules and one NGA.	• Monitors and controls up to six ASM-16 or ANU-48 modules and one NGA.	• Monitors and controls up to six ASM-16 or ANU-48 modules and one NGA.
• The sixteen ASM-16 modules provide up to 256 switch inputs. The ANU-48 module provides up to 128 switch inputs.	• Supports 16 AOM-TELF modules, as well as 32 AOM-2SF or AOM-MUXF modules.	• Supports 16 AOM-TELF modules, as well as 32 AOM-2SF or AOM-MUXF modules.
• Both the ASM-16 and ANU-48 module types control a maximum of 768 LEDs. • The ASM-16 has RED, GREEN and YELLOW LEDs built. • The ANU-48 drives user supplied external lights.	• The six ASM-16 or ANU-48 sub-assemblies provide up to a total of 96 programmable control switches.	• The six ASM-16 or ANU-48 sub-assemblies provide up to a total of 96 programmable control switches.
• Occupies one node on the E3 Broadband network.	• Both the ASM-16 and ANU-48 modules control a maximum of 288 LEDs. – The ASM-16 has RED, GREEN and YELLOW LEDs built. – The ANU-48 drives user supplied external lights.	• Both the ASM-16 and ANU-48 modules control a maximum of 288 LEDs. – The ASM-16 has RED, GREEN and YELLOW LEDs built. – The ANU-48 drives user supplied external lights.
	• Occupies one node on the E3 Series Classic network. (Used in Fire applications only).	• Occupies one node on the E3 Broadband network.
	• Provides one voice channel per each INI-VGE node that is capable of commanding up to twenty AA-100 or AA-120 amplifiers.	• Monitors and controls up to four AM-50 Series amplifiers configured as any of the following: • A total of 4 main amplifiers (without a backup amplifier) where the audio output power cannot exceed 150 Watts maximum or 3 main amplifiers max. with 1 standby amplifier or • 2 main amplifiers with 2 standby amplifiers or • 1 main amplifier with 1 standby amplifier • 1, 2, 3 main amplifiers with no standby amplifier

Table 1.1.1 INI-VG Series (Third Generation) Module Features

1.2 Mass Notification System (MNS)

The Gamewell-FCI, Mass Notification System (MNS) is a Combination In-Building Fire and Mass Notification System. It comprises the E3 Series Broadband Emergency Voice Evacuation and the E3 Series Broadband Networked Fire Alarm Systems. This design allows a wide range of configurations to form an integrated, distributed fire alarm system in combination with the audio evacuation for both Fire and Mass Notification functions as desired. The design also allows for its use as a dedicated standalone Mass Notification System without the fire alarm service. The network communication conveys all Fire Alarm and Mass Notification control functions, audio evacuation, voice paging, and fire fighter communications over a single pair of wires or fiber-optic cable. The modular design offers several configurations to accommodate the following audio components:

- Autonomous Control Unit (ACU), (Main Command Center)
- Local Operating Console (LOC), (Remote Command Center)
- E3 Series Broadband Voice Evacuation System

Table 1.2.1 lists the E3 Series sub-assemblies that can be used in the Gamewell-FCI, MNS (Mass Notification System).

Autonomous Control Unit (ACU) (Main Command Center)	E3 LOC Remote Command Center	E3 Broadband System (Distributed System)
AM-50 Series Amplifiers	AOM-TELF/AOM-2SF	AM-50 Series Amplifiers
ANU-48 (Remote Annunciator)	ASM-16 (Addressable Switch Module)	ANU-48 (Remote Annunciator)
ASM-16 (Addressable Switch Module)	INI-VG Series (First/Second/Third Generation) (Intelligent Network Interface Voice Gateway)	ASM-16 (Addressable Switch Module)
ILI-MB-E3 (Intelligent Loop Interface-Main Board)	INCC-MIC (Microphone)	ILI-MB-E3 (Intelligent Loop Interface-Main Board)
ILI-S-E3 (Intelligent Loop Interface-Expansion Board)	NGA (Network Graphic Annunciator)	ILI-S-E3 (Intelligent Loop Interface-Expansion Board)
ILI95-MB-E3 (Intelligent Loop Interface-Main Board)	INCC-TEL (Telephone)	ILI95-MB-E3 (Intelligent Loop Interface-Main Board)
ILI95-S-E3 (Intelligent Loop Interface95-Expansion Board)		ILI95-S-E3 (Intelligent Loop Interface95-Expansion Board)
INCC-MIC (Microphone)		INCC-MIC (Microphone)
INCC-TEL (Telephone)		INCC-TEL (Telephone)
INI-VG Series (First/Second/Third Generation) (Intelligent Network Interface Voice Gateway)		INI-VGC (First/Second/Third Generation) (Intelligent Network Interface Voice Gateway)
NGA (Network Graphic Annunciator)		INI-VGX (First/Second/Third Generation) (Intelligent Network Interface Voice Gateway)
PM-9/PM-9G (Power Supply)		NGA (Network Graphic Annunciator)
RPT-E3 (Communication Circuit)		PM-9/PM-9G (Power Supply)
		RPT-E3 (Communication Circuit)
Note: In the E3 Series, Mass Notification System, the LCD-E3, LCD-SLP, LCD-7100/RAN-7100 display panels are not used.		

Table 1.2.1 E3 Series Modules Used in an MNS System

1.2.1 Mass Notification System - Documentation

The following MNS System information is available in the Gamewell-FCI, *Mass Notification System (MNS) Installation/Operation Manual, Part Number:LS10013-000GF-E*.

- System Configurations
- Cabinets Installations
- Class 2 Power-Limited Requirements
- Wiring
- System Operation
- Testing/Maintenance

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Section 2: Installation

2.1 Standards

These modules comply with the following Standards:

National Fire Protection Association

- NFPA 70 National Electrical Code
- NFPA 72 National Fire Alarm Code
- NFPA 101 Life Safety Code

UL Standards UL 864 9th and 10th Edition

- Per the UL Continuing Certification Program, UL 864 9th edition fire alarm control equipment will retain certification after the rollout of UL 10th edition (12/2/2018).
- Installations of UL 864 10th Edition certified equipment are permitted to use UL864 9th Edition certified equipment when approved by the local Authority Having Jurisdiction (AHJ).

For product compliance, refer to the UL listing cards located on the UL online certification directory.

https://iq.ulprospector.com

2.2 Installation Requirements

All components of the E3 Series® Fire Alarm and Mass Notification Systems should be installed per the following requirements:

- Installations are to be indoors only, in dry locations, protected from rain, water, and rapid changes in temperature that could cause condensation. Equipment must be securely mounted on rigid, permanent walls.
- Operating temperature shall not exceed the range of 32° to 120° F (0 to 49° C).
- Operating humidity not to exceed 93% non-condensing at 90° F (32° C).
- There should be adequate space around the installation to allow easy access for operation and servicing.
- All sub-assemblies and components are to be located in compliance with the local, the national codes and the manufacturer's recommendations.
- All installation field wiring shall be in compliance with the local code, the national code and the manufacturer's recommendations.
- Use the Architects and Engineering Specifications for detailed information on your Facility's Configuration.
- Installers must be Gamewell-FCI Factory Certified to program this product. For additional information on this product, contact the Gamewell-FCI Customer Support to schedule the Factory Certified Training.



IMPORTANT NOTE: COLD WATER/EARTH GROUND STANDARD:
Per Article 760 of the National Electrical Code, the following terminal blocks must be connected to an Earth Ground connection:
- Terminal TB3-3 on the ILI-MB-E3/ILI95-MB-E3
- Terminal TB3-3 on the INI-VG Series (First/Second Generation)
- Terminal TB1-5 on the INI-VG Series (Third Generation)

Failure to make a proper earth ground connection from a metallic cold water pipe or driven ground rod to this terminal will result in loss of lightning protection, reduce the tolerance of the system to transients, and will adversely affect the operation of the system. Panel neutral or conduit ground is not acceptable; minimum wire size is 14 AWG.

2.3 INI-VG Series Installation

NOTE: The INI-VG Series sub-assembly can be installed in several types of configurations in the E3 Series cabinets. To determine the INI-VG Series installation you require, refer to the following documents:
- E3 Series Cabinets B, C, D, Retrofit, DR-C4/DR-D4 & EQ Cabinets Installation Instructions, P/N:LS10082-000GF-E
- E3 Series, Remote Annunciator Display and Retrofit Cabinets Installation Instructions, P/N: LS10083-000GF-E
- Mass Notification System (MNS) Installation/Operation Manual, P/N: LS10013-000GF-E

1. Remove the unit from its static-shield bag, observing proper static protection measures.
2. Visually inspect the unit for damage.

   If any components are damaged, notify the shipping carrier immediately. Report missing components to Gamewell-FCI Customer Service.
3. Use the Hardware Kit provided with the unit.
4. Place the unit into position on the sub-chassis as shown in Figure 2.3.1. To secure the unit, use six, (#4-40 x 1/4") screws.

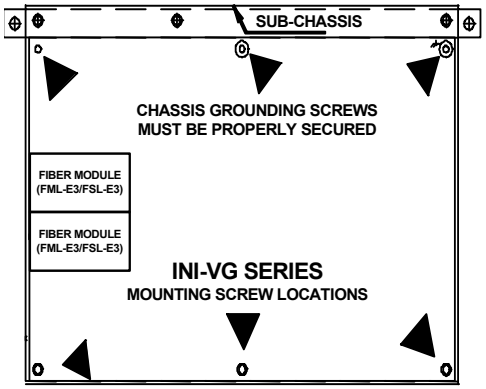


Figure 2.3.1 INI-VG Series (Third Generation) Installation

5. If the network connection requires copper wiring, wire the Terminal Block TB1 inside the enclosure at any time.
6. If the connection requires fiber-optic wiring, install the desired type of fiber module (FML-E3 or FSL-E3) in the Fiber Module #1 and/or Fiber Module #2 location. Then, refer to the Cable Manufacturer's Instructions for information on how to terminate the cable, assemble the connector, and install the cable to the appropriate fiber-optic connector. (INI-VG Series Third Generation only).

2.3.1 INI-VGX Installation

1. The INI-VGX mounts at the top of the sub-chassis inside the Intelligent Network Transponder cabinet.The Intelligent Network Transponder cabinet also contains the PM-9/PM-9G power supply, up to four AM-50 Series amplifiers along with the standby batteries. (Batteries not included).
2. The installation of the INI-VGX does not require the removal of the sub-chassis from the enclosure. However, for a new installation, you must remove the sub-chassis before you install the PM-9/PM-9G power supply.
3. Connect the 20-conductor ribbon cable to J16 and then connect the cable to the AM-50 Series amplifiers as shown in Figure 2.3.1.1.
4. If you use the AM-50-70 amplifier, attach each ferrite clamp to each ribbon cable as shown in Figure 2.3.1.1.
5. To set the address, use the Address Switch, SW1. Do not duplicate an existing address. See Figure 4.1, INI-VG Series Addresses for the programming address switch settings.

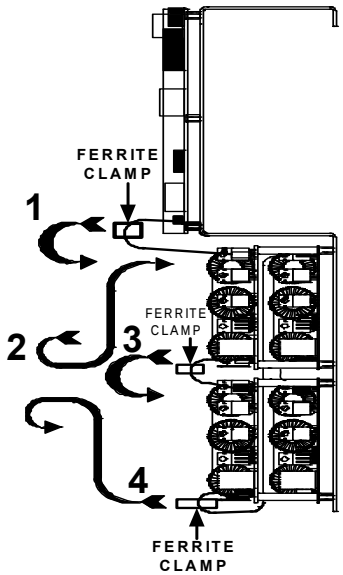


Figure 2.3.1.1 Ribbon Cable Installation

Section 3: Wiring

Figure 3.1 illustrates the INI-VG Series (Third Generation).

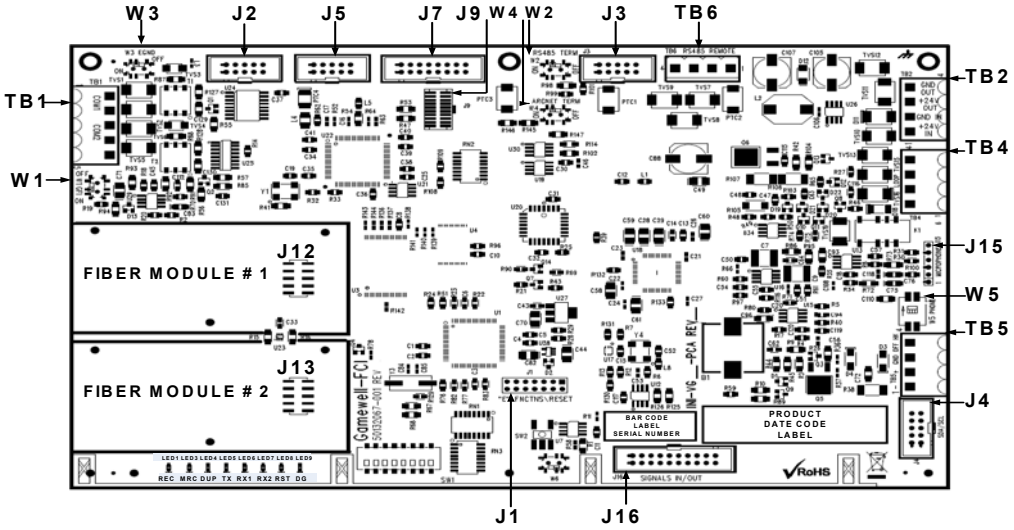


Figure 3.1 INI-VG Series (Third Generation)

INI-VG Series Terminal Designations

Table 3.1 lists the INI-VG Series terminal designation connections.

Designation	Description
INI-VG Series Third Generation	
Terminal Block 1-Network connection- using unshielded, twisted-pair	
TB1-1	COM 1A connection
TB1-2	COM 1B connection
TB1-3	COM 2A connection
TB1-4	COM 2B connection
Terminal Block 1-Network connection- using unshielded, twisted-pair, fiber-optic plug-in modules	
TB1-5	Earth Ground
Terminal Block 2- External Power Connection	
TB2-1	24 VDC (+) Power Input from external power supply or PM-9/PM-9G TB4-1, TB4-3, TB4-5
TB2-2	GND (-) Power Input from external power supply or PM-9/PM-9G TB4-2, TB4-4, TB4-6
TB2-3	24 VDC (+) Power OUT terminal-wiring terminal only, not a source of power
TB2-4	GND (-) Power OUT terminal- wiring terminal only, not a source of power
Terminal Block 4- Signaling Line Circuit Connections (See Notes 1, 2, 3, 4, 5 and 6)	
TB4-1	Local Speaker (INCC or Intelligent Network Transponder) or connect to either ACT-1 or ACT-4 (-) terminal (INI-VGE Only) (See Notes 5 and 6).
TB4-2	Local Speaker (INCC or Intelligent Network Transponder) or connect to either ACT-1 or ACT-4 (+) terminal (INI-VGE Only) (See Notes 5 and 6).
TB4-3	Signaling Line Circuit (+), Class "B"
TB4-4	Signaling Line Circuit (-), Class "B"
Terminal Block 5- Fire Fighter Handset or Fire Fighter Phone riser connection (INI-VG Series)	
TB5-1	Fire Fighter Phone (-): - Plugs into local Fire Fighter Handset-INI-VGC, INI-VGC, INI-VGX - Phone riser field wiring connection to AOM-TELF Term 3- INI-VGE,INI-VGX (First/Second Generation), INI-VGE, INI-VGX (Third Generation)
TB5-2	Fire Fighter Phone (+): - Plugs into local Fire Fighter Handset- INI-VGC - Phone riser field wiring connection to AOM-TELF Term 4- INI-VGE,INI-VGX (First/Second Generation), INI-VGE, INI-VGX (Third Generation)
TB5-3	Telephone Plug Supervisory Loop (Connects to TB5-4) Connect only if INI-VG Series firmware is V2.0-006 or later.
TB5-4	Telephone Plug Supervisory Loop (Connects to TB5-3) Connect only if INI-VG Series firmware is V2.0-006 or later.

Table 3.1 INI-VG Series Terminal Designation Connections

Designation	Description
Terminal Block 6- RS485 Remote Connection to ASM-16/ANU-48s in Separate Cabinet	
TB6-1	+ 24 VDC Supply - connects to remote ASM-16/ANU-48 TB1-3
TB6-2	RS-485 COM B - connects to remote ASM-16/ANU-48 TB1-2
TB6-3	RS-485 COM A - connects to remote ASM-16/ANU-48 TB1-1
TB6-4	System Common (-) connects to remote ASM-16/ANU-48 TB1-4
NOTES	
Note 1: INI-VGC Signaling Line Circuit supports AOM-TEL and AOM-TELF Telephone Modules.	
Note 2: INI-VGX Signaling Line Circuit supports AOM-TEL and AOM-TELF Telephone Modules and AOM-2S, AOM-2SF, and MMO-6S Speaker Circuit Control Modules.	
Note 3: INI-VGE Signaling Line Circuit supports AOM-TEL and AOM-2SF Control Modules.	
Note 4: Use the Signaling Line Circuit (SLC) devices for Fire applications only.	
Note 5: If you use TB4-1 and TB4-2 to connect to a local speaker, you must use a transformer-coupled voice evacuation loudspeaker set for 25V, 1W or less.	
Note 6: Ensure that a 470-ohm impedance matching resistor is installed on the last amplifier (P3 Terminals 4 and 5). Failure to do this installation will result in a calibration difficulty.	

Table 3.1 INI-VG Series Terminal Designation Connections (Continued)

3.1 LED Indicators, Operation and Network Connections

Table 3.1.1 lists the INI-VG Series indicating and diagnostic LEDs.

Designation	LED Label	Description
LED 1	REC	Network is reconfiguring.
LED 3	MRC	This node is initiating a network reconfiguration.
LED 4	DUP	Duplicate node address or address switch error.
LED 5	TX	The sub-assembly is transmitting network data.
LED 6	RX1	The sub-assembly is receiving network data on Channel 1.
LED 7	RX2	The sub-assembly is receiving network data on Channel 2.
LED 8	RST	Firmware fault
LED 9	DG	Trouble condition

Table 3.1.1 INI-VG Series Indicating and Diagnostic LEDs

You can connect the INI-VG Series to the E3 Series Network in several ways. These connections include the following options:

- UTP via the terminal TB1
- Fiber-Option Modules (via daughter cards connected to J12 and /or J13)
- Locally using J2, J5 and/or J7

Table 3.1.2 lists the above three options.

UTP	UTP and/or Fiber-Option Connections	(INI-VG Series Third Generation Only) Locally using J2, J5 and/or J7 Connections
Connect UTP via TB1	When you use the UTP and/or Fiber-Option connections, the following LEDs are normally activated. • LED5 (TX) • LED6 (RX1) • LED7 (RX2) (See Notes 1 and 2).	When you use only the local connection J2, J5 and/or J7, and neither the UTP nor the Fiber-Option modules are used, the following LEDs are normally activated. • LED5 (TX) • LED9 (DG) (See Note 3).
NOTES		
Note 1: LED6 and/or LED7 will be activated if the corresponding port is connected to another node.		
Note 2: LED9 is normally OFF.		
Note 3: Both LED6 and LED7 are normally OFF.		

Table 3.1.2 INI-VG Series Connection Options to the E3 Series Network

3.2 INI-VG Series Power Connections

The INI-VGC and INI-VGE serve as the network interface and control unit of an INCC Command Center. Power connections are listed as follows:

- INI-VGC connects to its operating power via Terminal Block TB1.
- INI-VGE connects to its operating power via Terminal Block TB1.

The INI-VGX serves as the network interface and control unit of the distributed amplifier assembly that is installed in an Intelligent Network Transponder cabinet enclosure. It connects to its own dedicated PM-9/PM-9G power supply via the supplied ribbon cable that connects between J4 of the INI-VGX and J1 of the PM-9/PM-9G. Table 3.2.1 lists the INI-VG Series power connections.

Designation	Description
Terminal Block 1	
For INI-VGC or INI-VGX (if J4 is not used)	
TB2-1	+24 VDC IN - from power supply or TB4-5 of PM-9/PM-9G
TB2-2	GND (-) IN – from power supply or TB4-2 of PM-9/PM-9G
TB2-3	+24 VDC OUT
TB2-4	GND (-) OUT
Jumper 4	
For INI-VGX or INI-VGE (if J4 is used)	
J4	SDA/SCL – to PM-9/PM-9G power supply J1. Use for supervision of the PM-9/PM-9G.

Table 3.2.1 INI-VG Series Power Connections

3.3 INI-VG Series Wiring Connections

Table 3.3.1 lists the INI-VG Series jumper, cable and switch connections.

Designation	Description	Comments
INI-VG Series (Third Generation)		
J1	"E" FNCTNS/RESET	Factory use
J2	Local ARCNET	Connects to J5 of the next ILI-E3, ILI95-E3 Series or ANX sub-assembly. (See Note 1) (Third Generation only).
J3	RS-485 Local	Connects to 1st Local ASM-16/ANU-48 Connector J2
J4	SDA/SCL	Connects to PM-9/PM-9G Connector J1 in the INX, INX CAB-B and the INI-VGE only. Used for the Supervision of the PM-9/PM-9G.
J5	Local ARCNET	Connects to J2 of the next ILI-E3, ILI95-E3 Series or ANX sub-assembly. (See Note 1). (Third Generation only).
J7	Repeater	Network Backplane. Connect to J4 on NGA sub-assembly **Note:** Use the ANX for Fire applications only.
J12	Fiber Module #1	Connection of optional Fiber-Optic modules (FML-E3 or FSL-E3) for Network Port 1. (Third Generation only).
J13	Fiber Module #2	Connection of optional Fiber-Optic modules (FML-E3 or FSL-E3) for Network Port 2. (Third Generation only)
J15	Microphone	Connectors to microphone cable. If no microphone is installed, jumpers must be installed between pins 3 and 4, and 5 and 6.
J16	Signals In/Out	Connects to the first AM-50 Series amplifier connector J1 in the INX or INX CAB-B only
W1	GFI Switch	To enable the network ground fault detection, set the switch DOWN. To disable the network ground fault detection, set the switch UP. **Note:** When the UTP copper wiring is used for one or both network connections, enable the network ground fault detection. You can enable ground fault detection of the network wiring between this INI-VG Series module and any other nodes that are directly connected to this INI-VG Series module, node.
W2	Termination Switch	To enable the RS-485 termination, press the switch LEFT. To disable the RS-485 termination, press the switch RIGHT. **Note:** You can enable the RS-485 termination if the last ASM-16 or ANU-48 module is connected to the RS-485 bus and JMP1 is installed. Otherwise, disable the termination.

Table 3.3.1 INI-VG Series Jumper, Cable and Switch Connections

Designation	Description	Comments
INI-VG Series (Third Generation) (Continued)		
W3	EGND Switch	To enable the earth ground reference circuit, press the switch LEFT. To disable the earth ground reference circuit, press the switch RIGHT. **Note:** You can enable the earth ground reference circuit only if the INI-VG Series is powered by a power supply that does not supervise ground faults.
W4	ARCNETTermination	To enable ARCNET termination, press the switch LEFT. To disable ARCNET termination, press the switch RIGHT. (Third Generation only). Use OPEN for normal operation. Use SHORT if the ILI-MB-E3 is located at the end of the ARCNET bus. (These settings are used for the ILI-MB-E3, First Generation only.)
W5	PHONE Filter Bypass	To bypass, set the switch UP. To enable the filter, set the switch DOWN. **Note:** Enable the filter if TB5 is connected to a local command center telephone.
Note: Use the ANX for fire applications only.		

Table 3.3.1 INI-VG Series Jumper, Cable and Switch Connections (Continued)

3.4 INI-VG Series (Third Generation) Wiring Diagrams

3.4.1 INI-VGC (Third Generation) Wiring Diagram

Figure 3.4.1.1 illustrates the field wiring connections for the INI-VGC circuit board (Third Generation only).

NOTE: To view the INI-VG Series (First/Second Generation) wiring, refer to the INI-VG Series Instructions (P/N:9000-0549).

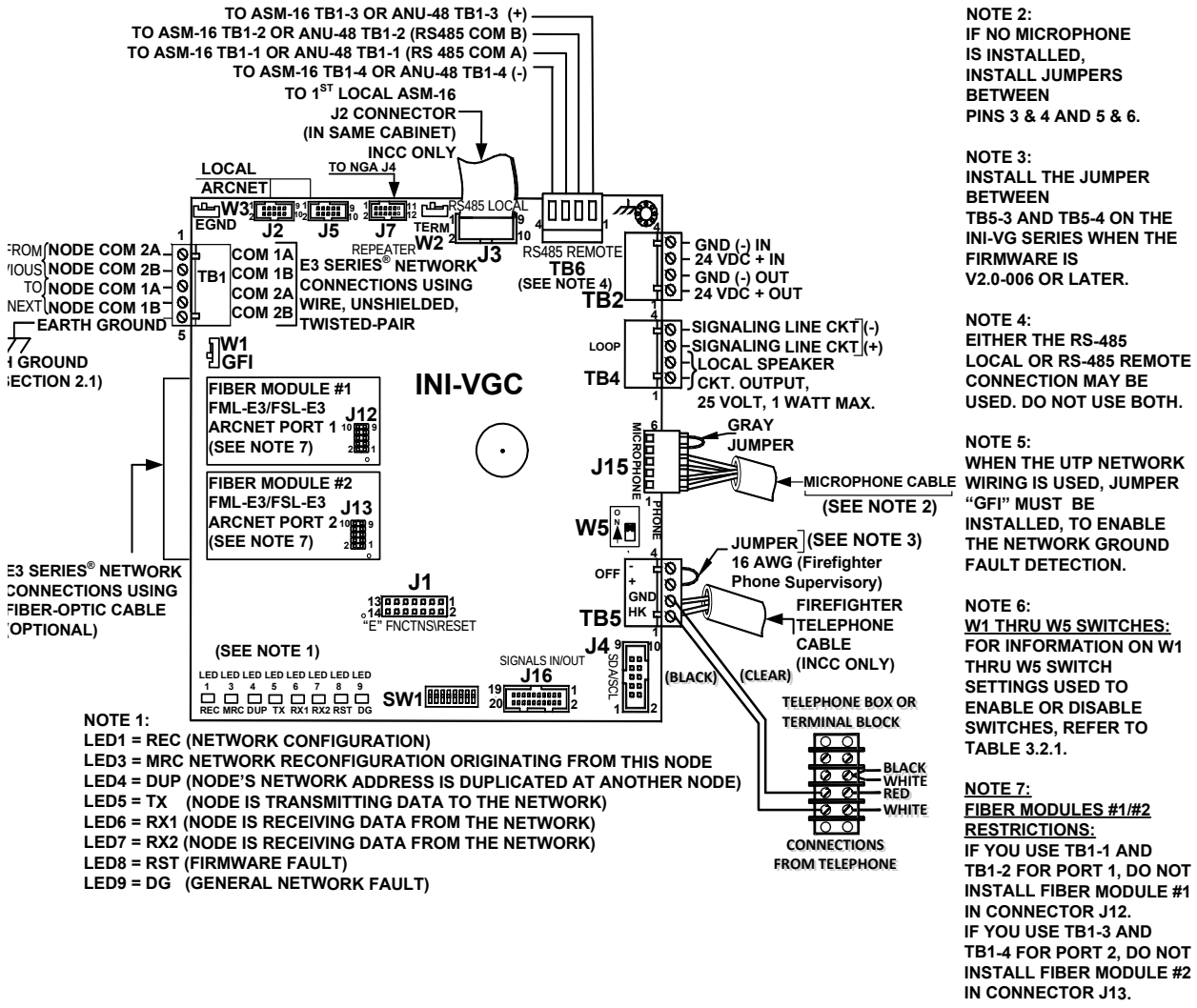
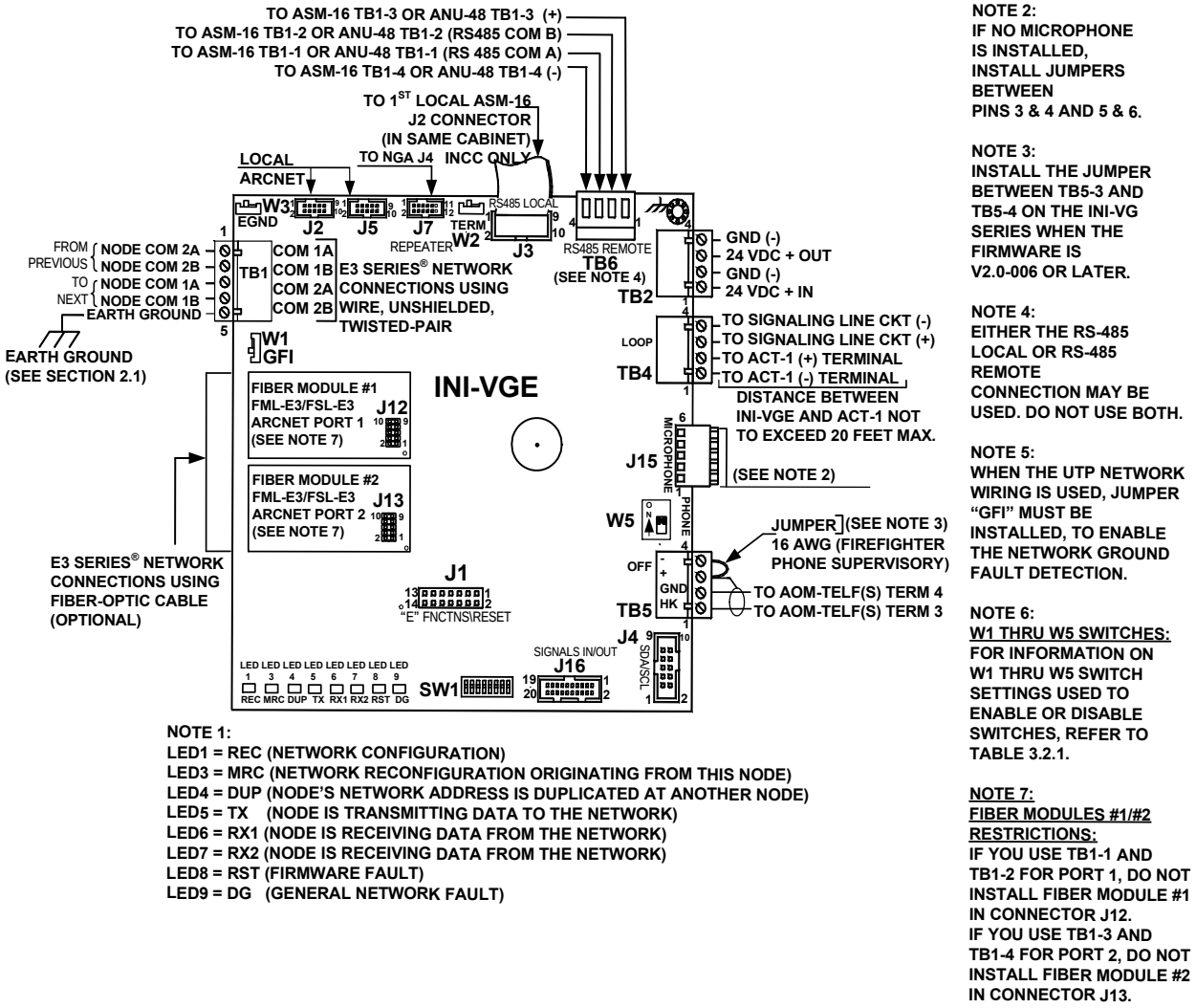


Figure 3.4.1.1 INI-VGC (Third Generation) Wiring Connections Diagram

3.4.2 INI-VGE (Third Generation) Wiring Connections Diagram

Figure 3.4.2.1 illustrates the field wiring connections for the INI-VGE sub-assembly.

NOTE: To view the INI-VG Series (First/Second Generation) wiring, refer to the INI-VG Series Instructions (P/N:9000-0549).



NOTE 1:
LED1 = REC (NETWORK CONFIGURATION)
LED3 = MRC (NETWORK RECONFIGURATION ORIGINATING FROM THIS NODE)
LED4 = DUP (NODE'S NETWORK ADDRESS IS DUPLICATED AT ANOTHER NODE)
LED5 = TX (NODE IS TRANSMITTING DATA TO THE NETWORK)
LED6 = RX1 (NODE IS RECEIVING DATA FROM THE NETWORK)
LED7 = RX2 (NODE IS RECEIVING DATA FROM THE NETWORK)
LED8 = RST (FIRMWARE FAULT)
LED9 = DG (GENERAL NETWORK FAULT)

NOTE 2:
IF NO MICROPHONE IS INSTALLED, INSTALL JUMPERS BETWEEN PINS 3 & 4 AND 5 & 6.

NOTE 3:
INSTALL THE JUMPER BETWEEN TB5-3 AND TB5-4 ON THE INI-VG SERIES WHEN THE FIRMWARE IS V2.0-006 OR LATER.

NOTE 4:
EITHER THE RS-485 LOCAL OR RS-485 REMOTE CONNECTION MAY BE USED. DO NOT USE BOTH.

NOTE 5:
WHEN THE UTP NETWORK WIRING IS USED, JUMPER "GFI" MUST BE INSTALLED, TO ENABLE THE NETWORK GROUND FAULT DETECTION.

NOTE 6:
W1 THRU W5 SWITCHES:
FOR INFORMATION ON W1 THRU W5 SWITCH SETTINGS USED TO ENABLE OR DISABLE SWITCHES, REFER TO TABLE 3.2.1.

NOTE 7:
FIBER MODULES #1/#2 RESTRICTIONS:
IF YOU USE TB1-1 AND TB1-2 FOR PORT 1, DO NOT INSTALL FIBER MODULE #1 IN CONNECTOR J12.
IF YOU USE TB1-3 AND TB1-4 FOR PORT 2, DO NOT INSTALL FIBER MODULE #2 IN CONNECTOR J13.

Figure 3.4.2.1 INI-VGE (Third Generation) Wiring Connections Diagram

3.4.3 INI-VGX (Third Generation) Wiring Connections Diagram

Figure 3.4.3.1 illustrates the field wiring connections for the INI-VGX sub-assembly.

NOTE: To view the INI-VG Series (First/Second Generation) wiring, refer to the INI-VG Series Instructions (P/N:9000-0549).

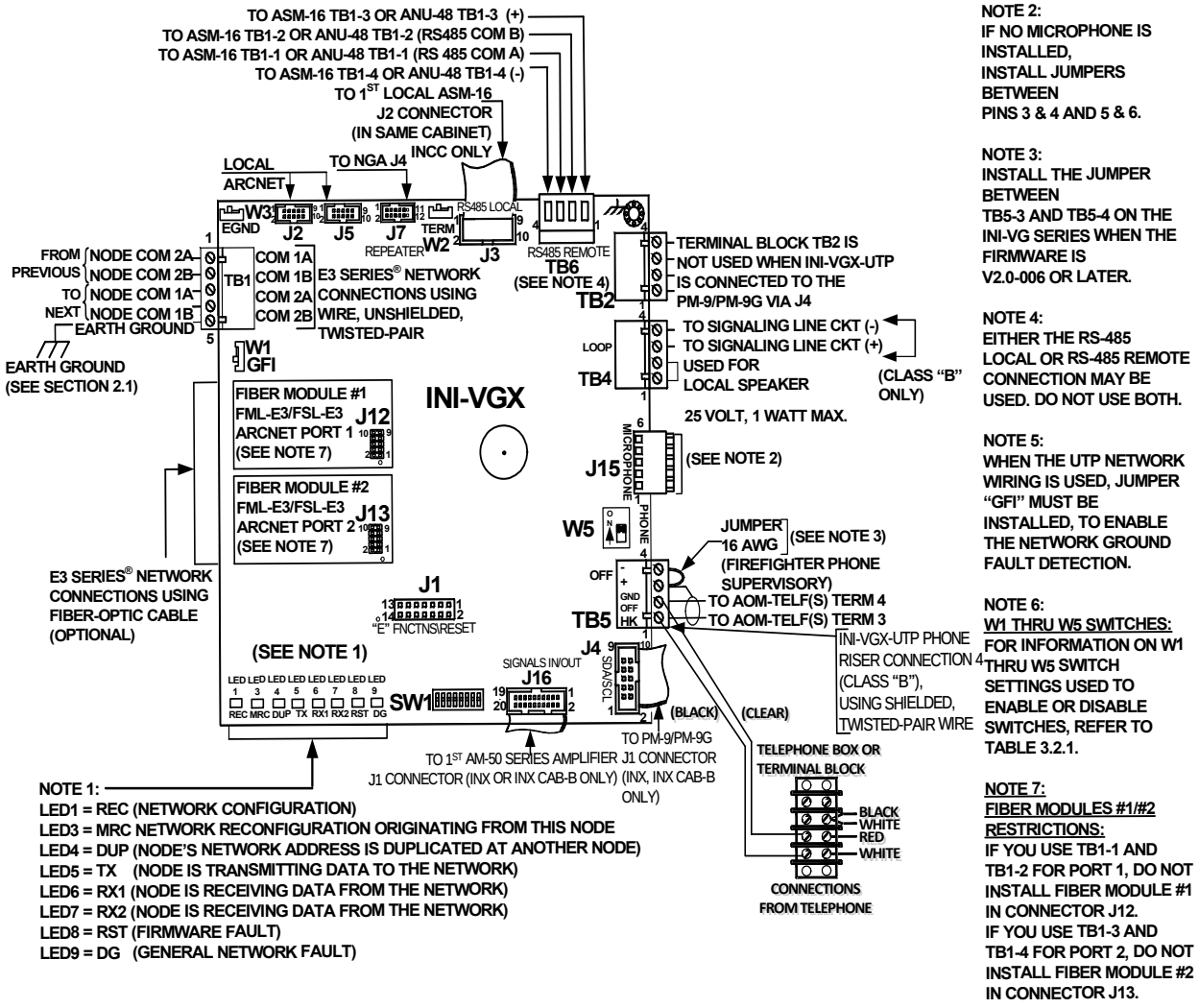


Figure 3.4.3.1 INI-VGX (Third Generation) Wiring Connections Diagram

Section 4: Programming Address Switch Settings

To set the address, use the Address Switch, SW1. Do not duplicate an existing address. Figure 4.1 illustrates the programming address switch settings for the INI-VG Series modules.

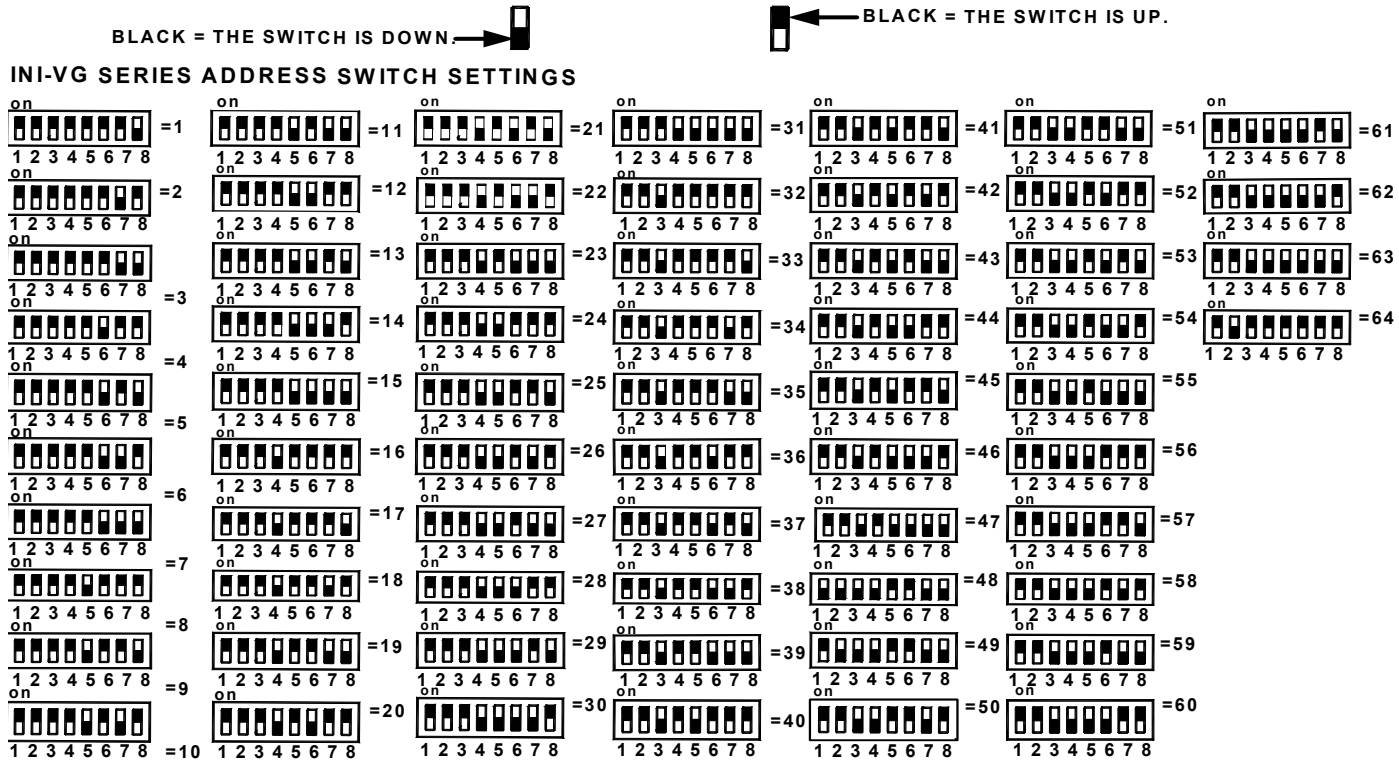


Figure 4.1 INI-VG Series Address Switch Settings

Section 5: Specifications

The following are the electrical specifications for the INI-VG Series modules.

Operating Voltage:	24 VDC (from the PM-9/PM-9G power supply)
Operating Current:	0.150 amp
Alarm Current:	0.150 amp
Operating Temperature:	32° to 120° F (0° to 49° C)
Relative Humidity:	0 to 93%, non-condensing at 90 F (32° C)
Supervised	Class 2 Power-Limited

Section 6: Reference Documentation

Table 6.1 lists the UL-Controlled documentation assigned to the S3 Series and E3 Series Systems. If you require detailed installation instructions on cabinetry, wiring and specifications, you can download the following UL-Controlled documents from the ESD site on the Gamewell-FCI Website (www.gamewell-fci-esd.com).

Part Number	Title
UL Listing Document	
LS10005-051GF-E	S3 Series (Small Addressable Fire Alarm Control Panel) UL Listing Document
LS10080-051GF-E	E3 Series Fire System (Expandable Emergency Evacuation System) UL Listing Document
Manuals	
9000-0575	E3 Series Broadband Installation/Operation Manual
9000-0577	E3 Series Classic Installation/Operation Manual
LS10013-000GF-E	E3 Series Combined Fire and MNS Installation/Operation Manual
Installation Instructions	
9000-0491	LCD-7100 (Remote Serial Annunciator) Installation Instructions
9000-0544	AM-50 Series (50 Watt Amplifiers) Installation Instructions
9000-0545	INX, INX CAB-B, INX CAB-C and INX CAB-D Installation Instructions
9000-0546	INCC Intelligent Network Interface Installation Instructions
9000-0548	PM-9 (Power Supply) Installation Instructions
9000-0549	INI-VG Series (Intelligent Network Transponder) Installation Instructions
9000-0550	ASM-16 (Addressable Switch Module) Installation Instructions
9000-0564	ANU-48 (Remote LED Driver Annunciator) Installation Instructions
9000-0568	NGA (Network Graphic Annunciator) Installation Instructions
9000-0569	ILI-S-E3 (Intelligent Loop Interface - Expansion Board) Installation Instructions
9000-0579	ILI-MB-E3 (Intelligent Loop Interface - Main Board) Installation Instructions
9000-0580	RPT-E3-UTP (Repeater-E3 Unshielded Twisted-Pair) Installation Instructions
9000-0581	DACT-E3 (Digital Alarm Communicator Transmitter) Installation Instructions
9000-0582	LCD-E3 (Liquid Crystal Display-E3) Installation Instructions
9001-0017	ILI95-MB-E3 (Intelligent Loop Interface-95 - Main Board) Installation Instructions
9001-0018	ILI95-S-E3 (Intelligent Loop Interface-95 - Expansion Board) Installation Instructions
9001-0055	PM-9G (Power Supply) Installation Instructions
9001-0064	ANX (Addressable Node Expander) Installation Instructions
9001-0066	RAN-7100 (Remote Alphanumeric Annunciator) Installation Instructions
LS10044-000GF-E	SLC-PM/SLC95-PM (Signaling Line Circuit-Personality Modules Installation Instructions
LS10045-000GF-E	LCD-SLP (Liquid Crystal Display-Smart Loop Panel) Installation Instructions
LS10046-000GF-E	FML-E3/FSL-E3 (Fiber-Optic Multi-Mode/Fiber-Optic Single-Mode) Installation Instructions
LS10058-000GF-E	FLPS-7 (Power Supply) Installation Instructions
LS10082-000GF-E	E3 Series Cabinets B, C, D, Retrofit, DR-C4/DR-D4 and EQ Cabinets Installation Instructions
LS10083-000GF-E	E3 Series, Remote Annunciator Display and Retrofit Cabinets Installation Instructions
LS10222-000GF-E	NGA (Network Graphic Annunciator-Second Generation) Installation Instructions
Addendum	
9000-0427-L8	Compatibility Addendum to Gamewell-FCI Installation/Operation Manuals UL File S1869
Supplement	
LS10138-151GF-E	E3 Series Control Panel, Releasing Applications Supplement
Frame-Posts	
9000-0583	E3 Series for the LCD-E3 Operating Instructions
LS10056-000GF-E	S3 Series (Small Addressable Fire Alarm Control Panel System), Operating Instructions
LS10121-000GF-E	E3 Series for the LCD-SLP Operating Instructions

Table 6.1 Reference Documentation

Honeywell Gamewell-FCI
12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.gamewell-fci.com

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