

# DACT-E3

## Digital Alarm Communicator Transmitter 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 SERVICING, REMOVING OR INSTALLING ANY UNITS.

### Section 1: Description

The DACT-E3 (Digital Alarm Communicator Transmitter) sub-assembly is a digital communications circuit. It transmits and verifies digital signals over the telephone network to a Central Station. The DACT-E3 is compatible with the following digital signaling formats, and complies with FCC Part 8, Telecommunications Standards for DC and AC Ringer.

- SIA DC8
- SIA DCS20
- 3+1 2300 Hz
- 4+2 1400 Hz
- 4+2 2300 Hz
- 3+1 1400 Hz
- Ademco Contact ID

It is used as the communications circuit with the following modules and systems.

E3 Series® Systems	Retrofit Kits	S3 Series System
<ul style="list-style-type: none"> <li>• E3 Series Broadband/Classic Systems</li> <li>• ILI-MB-E3 (Intelligent Loop Interface-Main Board)</li> </ul>	<ul style="list-style-type: none"> <li>• IF600 Retrofit B-Slim</li> <li>• 600 XL Retrofit Kit</li> </ul>	<ul style="list-style-type: none"> <li>• S3 Series (Small Addressable Panel)</li> </ul>
<ul style="list-style-type: none"> <li>• ILI95-MB-E3 (Intelligent Loop Interface95-Main Board)</li> </ul>	<ul style="list-style-type: none"> <li>• 7200 Retrofit Kit</li> </ul>	

The DACT-E3 can be installed in a remote location via a local RS-485 interface. Figure 1.1 illustrates the DACT-E3 sub-assembly and Figure 1.2 shows the DACT-E3 circuit board PCB.

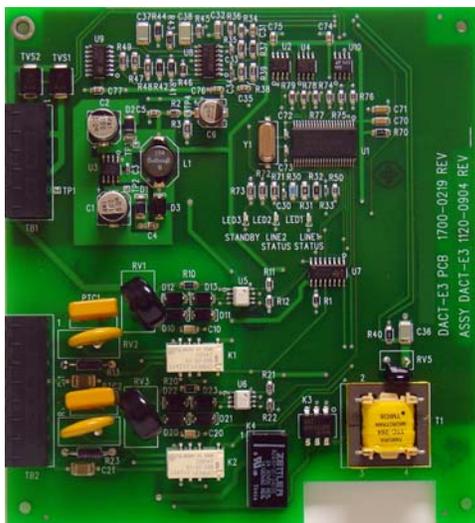


Figure 1.1 DACT-E3 Transmitter Sub-Assembly

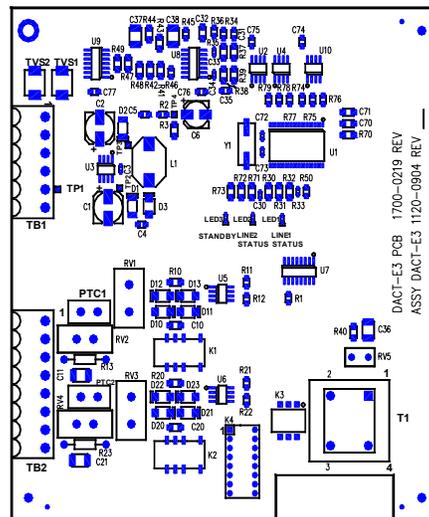


Figure 1.2 DACT-E3 Transmitter PCB

## Section 2: Installation

### 2.1 Standards

This product is intended to be installed in accordance with the following standards.

#### National Fire Protection Association

- |           |                               |            |                          |
|-----------|-------------------------------|------------|--------------------------|
| • AHJ     | Authority Having Jurisdiction | • NFPA 72  | National Fire Alarm Code |
| • NFPA 70 | National Electrical 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 roll-out 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/ULC listing cards located on the UL online certification directory.

<https://iq.ulprospector.com>

#### Underwriters Laboratories® Standard

- UL-2572 MNS Mass Notification, Second Edition

### 2.2 Installation Requirements

Components 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 shall not 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, the national codes 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.

## 2.3 DACT-E3 Installation

1. Remove the DACT-E3 sub-assembly 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 the Gamewell-FCI Customer Service.

3. Use the Hardware Kit provided with the unit.
4. The DACT-E3 sub-assembly can be installed in several types of configurations in the E3 Series and SLP-BB cabinets.

For additional information on the DACT-E3 installation, refer to the following documents:

- *E3 Series Fire System (Expandable Emergency Evacuation System) UL Listing Document, P/N:LS10080-051GF-E*
- *S3 Series System (Small Addressable Fire Alarm Control Panel) UL Listing Document, P/N: LS10005-051GF-E*
- *E3 Series Cabinets B, C, D, Retrofits, DR-C4/DR-D4, and EQ Cabinets Installation Instructions, P/N:LS10082-000GF-E*
- *E3 Series Remote Annunciator Display Cabinets, P/N:LS10083-000GF-E*

### 2.3.1 DACT-E3 Installation Assembly Options

Table 2.3.1.1 lists the systems, cabinets, and mounting plates that use the DACT-E3.

E3 Series Fire	S3 Series	Retrofit
Cabinet A1 Backbox	SLP-BB Cabinet, B Backbox (P/N:SLP-BB)	IF600 Retrofit B-Slim Cabinet
Cabinet B Backbox	S3 Series, B-Size Cabinet (P/N: E3BB-BB/RB)	600 XL Retrofit Cabinet C Backbox
B-Slim Cabinet Inner Door	E3 Series, Cabinet A2 (P/N: E3BB-BA2/RA2)	7200 Cabinet B E3-ILI-C Plate
Cabinet C, E3-INX-C Plate	E3BB-FLUSH-LCD Cabinet A2 (P/N: E3BB-FLUSH-LCD)	7200 Cabinet C E3-INCC-D Plate
Cabinet C, E3-INCC-C Plate		
Cabinet C, E3-ILI-C Plate		
Cabinet D, E3-INX-D Plate		
Cabinet D, E3-INCC-D Plate		
Cabinet D, Command Center		
Cabinet D, Voice Evacuation		
<p><b>Note:</b> For information on the DACT-E3 installation in the E3 Series, Fire, SLP or Retrofit Kits system cabinets and plates, refer to the <i>S3 Series (Small Addressable FACP) System UL Listing Document, P/N: LS10005-051GF-E</i>.</p>		

**Table 2.3.1.1 DACT-E3 Cabinet and Mounting Plate Configurations**

## 2.3.1 DACT-E3 Installation Configurations

### 2.3.1.1 DACT-E3 Installation in an E3 Series, Cabinet Configuration

In an E3 Series cabinet configuration, the PCB orientation of the DACT-E3 sub-assembly is usually installed above the ILI-MB-E3 or ILI95-MB-E3 sub-assembly as part of a backbox or a mounting plate configuration. To install the DACT-E3, refer to the following instructions.

1. Insert and secure eight standoffs (3/16" HEX #4-40, x 1.25") in the ILI-MB-E3/ILI95-MB-E3 as shown in Location 1 of Figure 2.3.1.1.1.
2. Align and place the DACT-E3 on the left side and above the ILI-MB-E3/ILI95-MB-E3.
3. Insert and secure four screws (#4-40 x 1/4") into the four standoffs as shown in Location 2 of Figure 2.3.1.1.1.



**NOTE: BACKBOX INSTALLATION:**

If the DACT-E3 is installed to the backbox, use four screws (#4-40 x 3/8") and secure the screws into the four studs on the backbox.

Figure 2.3.1.1.1 illustrates the DACT-E3 installed to the Cabinet C, E3-INCC-CAB-C plate.

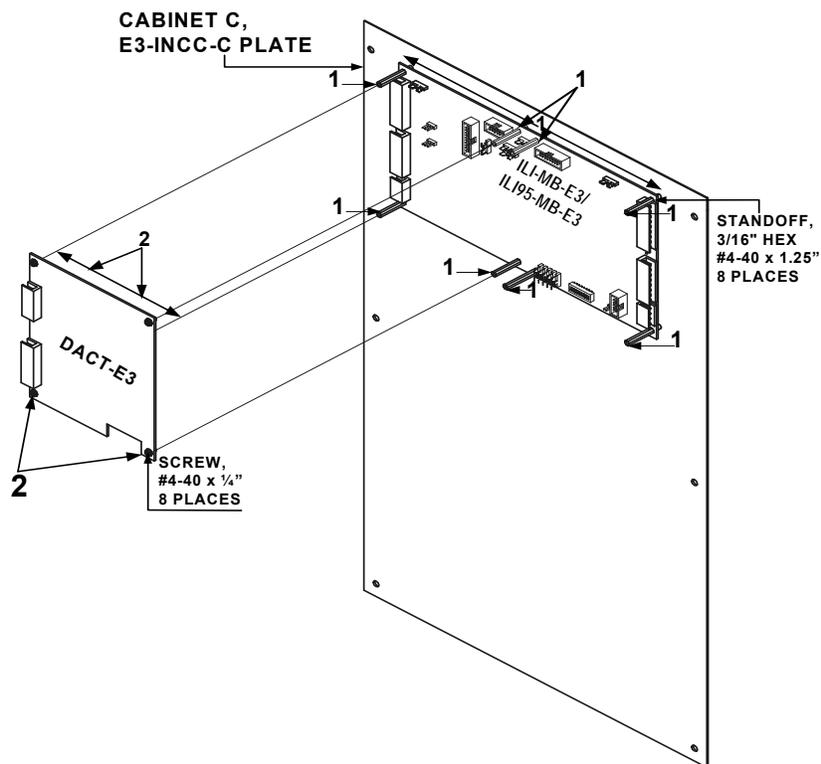
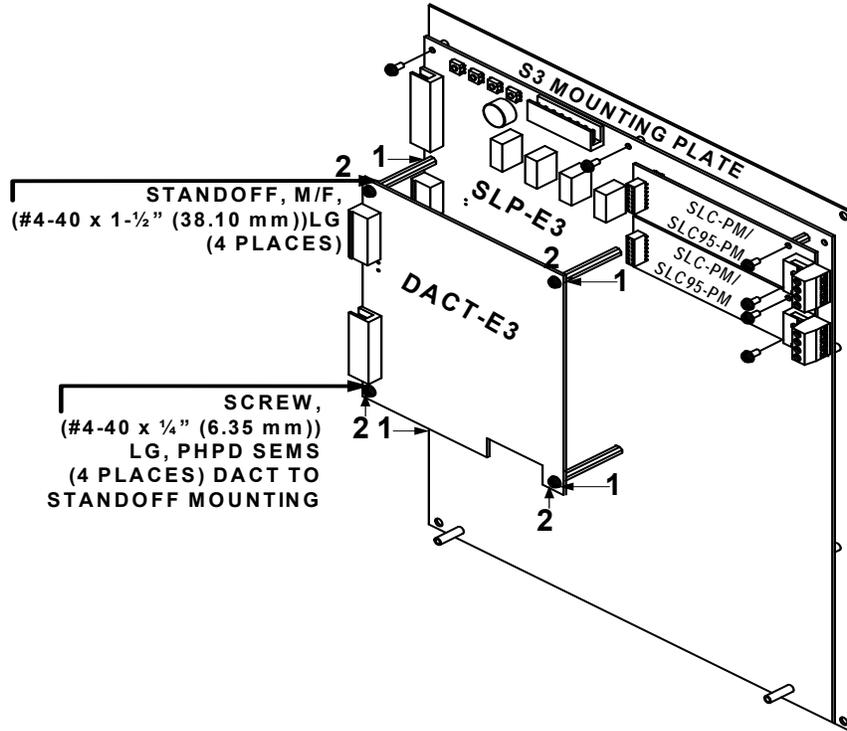


Figure 2.3.1.1.1 DACT-E3 Circuit Board Installed to a Mounting Plate

### 2.3.1.2 DACT-E3 Installation in an S3 Series, Cabinet Configuration

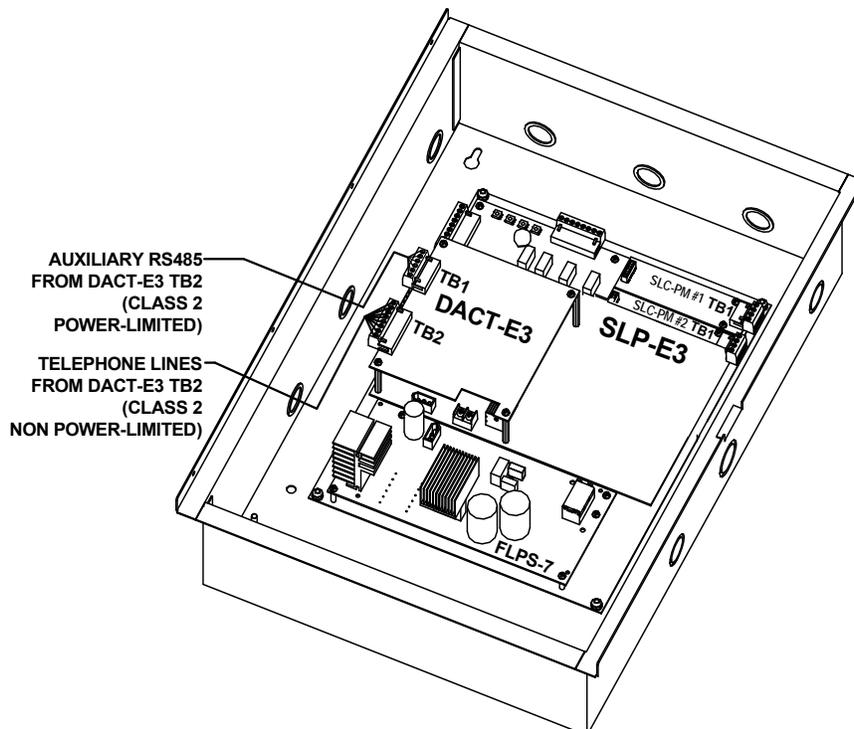
In an S3 Series, SLP-BB cabinet configuration, the PCB orientation of the DACT-E3 sub-assembly is usually installed above the SLP-E3 sub-assembly as part of a backbox configuration. To install the DACT-E3, refer to the following instructions.

1. Insert and secure four standoffs (3/16" HEX #4-40, x 1 1/2) to the SLP-E3 as shown in Location 1 of Figure 2.3.1.2.1.
2. Align and place the DACT-E3 on top of the SLP-E3.
3. To mount the DACT-E3 to the SLP-E3, insert and secure four screws (#4-40 x 1/4") into the four standoffs as shown in Location 2 of Figure 2.3.1.2.1.



**Figure 2.3.1.2.1 DACT-E3 to S3 Mounting Plate Installation**

Figure 2.3.1.2.2 illustrates the DACT-E3 installed in the SLP-BB cabinet.



**Figure 2.3.1.2.2 DACT-E3 Installed in the SLP-BB Cabinet**

## 2.4 Specifications

The following list the electrical specifications for the DACT-E3 sub-assembly.

**Operating Voltage:** 24 VDC non-resettable  
**Operating Current:** 0.018 amp  
**Alarm Current:** 0.018 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 3: Wiring Connections

Table 3.1 lists the field wiring connections for the DACT-E3.

Designation	Description	Comments
TB1-1	COM A IN	COM A from ILI-MB-E3/ILI95-MB-E3 TB3-1 or SLP-E3 TB3-1
TB1-2	COM B IN	COM B from ILI-MB-E3/ILI95-MB-E3 TB3-2 or SLP-E3 TB3-2
TB1-3	COM A OUT	COM A OUT to other devices
TB1-4	COM B OUT	COM B OUT to other devices
TB1-5	+24 V IN	+ 24 VDC from PM-9/PM-9G TB4-1, TB4-3, TB4-5 or SLP-E3 TB2-3
TB1-6	GND	GND from PM-9/PM-9G TB4-2, TB4-4, TB4-6 or SLP-E3 TB2-4
TB2-1	T1 Tip	Line 1 Tip IN from street Non power-limited*
TB2-2	T1 Ring	Line 1 Ring IN from street Non power-limited*
TB2-3	P1 Tip	Line 1 Tip OUT to phone Non power-limited*
TB2-4	P1 Ring	Line 1 Ring OUT to phone Non power-limited*
TB2-5	T2 Tip	Line 2 Tip IN from street Non power-limited*
TB2-6	T2 Ring	Line 2 Ring IN from street Non power-limited*
TB2-7	P2 Tip	Line 2 Tip OUT to phone Non power-limited*
TB2-8	P2 Ring	Line 2 Ring OUT to phone Non power-limited*

\*Non power-limited

**Table 3.1 DACT-E3 Installation Wiring Terminals**



**NOTE:** For additional information on the DACT-E3, refer to the following document:  
 - E3 Series® (Expandable Emergency Evacuation System) Control Panel UL Listing Document, P/N: LS10080-051GF-E

## Section 3: Wiring Connections (Continued)

Figure 3.1 illustrates the wiring connections for the DACT-E3 sub-assembly.

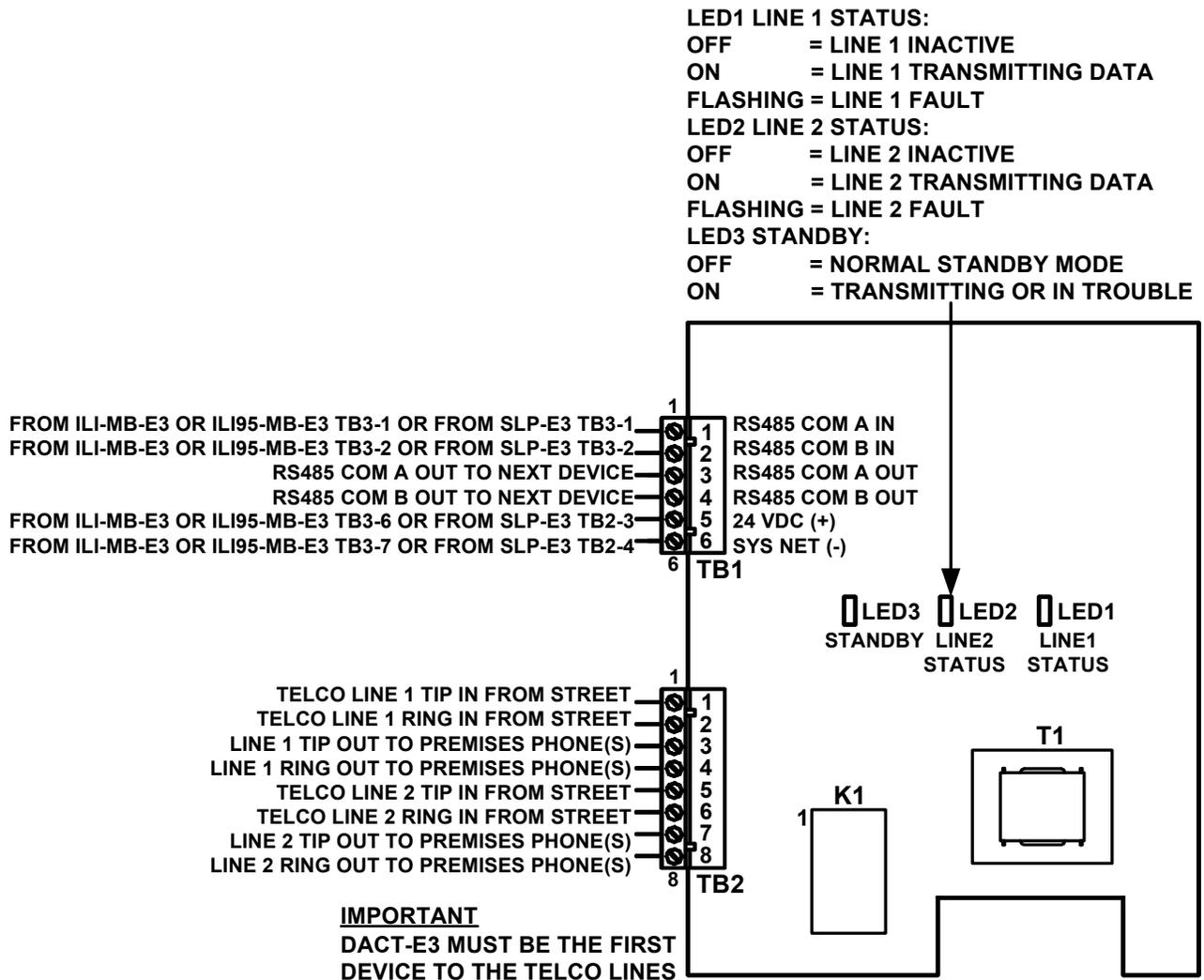


Figure 3.1 DACT-E3 Installation Wiring Diagram

## Section 4: Formats and Codes

### 4.1 Formats

The DACT-E3 Digital Alarm Communicator Transmitter offers several formats that can be configured in CAMWorks. The DACT-E3 uses the Ademco Contact ID format to transmit information to a Central Station. Table 4.1.1 lists the following DACT-E3 functions:

Function	Description
Line seizure	Takes control of the phone lines, disconnecting any premises phones using the same lines.
Off/On-Hook	Performs on and off-hook status to phone lines
Listen for dial tone -	440 Hz tone typical in most networks.
Dialing the Central Station phone number	Programmable.
'ACK' and "Kiss-off" Tone	Discern proper Central Station "ACK" and "Kiss-off" tone
Transmits data	Transmit data to the Central Station.
Data verification	Verify that data has been accepted by the Central Station
Phone line options	Hang-up and release phone lines.
Communication Formats	Communicate in a variety of formats

**Table 4.1.1 DACT-E3 Functions**

### 4.2 DACT-E3 Contact ID Event Reporting Codes in CAMWorks

In the CAMWorks program, there are two types of formats used to configure the DACT-E3 Contact ID Event Reporting Codes.

- Standard Format
- Custom Format

#### 4.2.1 Standard Formats

The DACT-E3 can be configured to allow each SLC device to report an event by selecting the DACT Reporting Feature. To define the Standard format for the ILI-E3/ILI95-E3 Series panel or SLP-E3 panel, enable the Standard Reporting Codes in the DACT Report Format Section of the DACT Settings screen in CAMWorks. The Custom DACT Reporting Feature is usually disabled by default. If you disable the Custom DACT Reporting Feature, the system uses the Standard Codes. For information on the DACT-E3 Contact ID Event Reporting Codes for Standard Formats, refer to Table 4.2.1.1. Figure 4.2.1.1 illustrates an example of the DACT-E3 Contact ID Reporting Codes for Standard formats used to configure the following types of systems.

STANDALONE SYSTEMS	CONTACT ID FORMAT				
CONTACT ID FORMAT <small>NOTE: Group Numbers are truncated to range [00-99].</small>	[R] <small>[1]=New Event [3]=Restoral</small>	[EEE] <small>Event Type</small>	[00] <small>Not Used</small>	[GG] <small>Group Number</small>	T] <small>Response Type</small>
EXAMPLE	1 <small>New Event</small>	110 <small>Fire Alarm</small>	00 <small>Not Used</small>	95 <small>Group 95</small>	6 <small>Smoke Alarm</small>
SINGLE-RING NETWORKED SYSTEMS	CONTACT ID FORMAT				
CONTACT ID FORMAT	[R] <small>[1]=New Event [3]=Restoral</small>	[EEE] <small>Event Type</small>	[00] <small>Not Used</small>	[NN] <small>Node Number</small>	T] <small>Response Type</small>
EXAMPLE	1 <small>New Event</small>	110 <small>Fire Alarm</small>	00 <small>Not Used</small>	25 <small>Node 25</small>	6 <small>Smoke Alarm</small>
MULTI-RING NETWORKED SYSTEMS	CONTACT ID FORMAT				
CONTACT ID FORMAT <small>NOTE: The 100s digit of the node number is reported in the [ON] field.</small>	[R] <small>[1]=New Event [3]=Restoral</small>	[EEE] <small>Event Type</small>	[ON] <small>Node Number 100s</small>	[NN] <small>Node Number 10s &amp; 1s</small>	T] <small>Response Type</small>
EXAMPLE	1 <small>New Event</small>	110 <small>Fire Alarm</small>	01 <small>Node 100</small>	03 <small>Node 103</small>	6 <small>Smoke Alarm</small>

**Figure 4.2.1.1 Example of the DACT-E3 Contact ID Event Reporting Codes for Standard Formats**

Table 4.2.1.1 lists the DACT-E3 Contact ID Event Reporting Codes for the Standard Formats.

Event	SIA	Contact ID	4/2	3/1
<b>(Standard DACT Reporting Formats)</b>				
Fire Alarm (Smoke or Manual Station)	FA [GGT]	1 110 [0G] [GGT]	0 [T]	0
Fire Alarm Restored	FH [GGT]	3 110 [0G] [GGT]	2 [T]	2
Waterflow Alarm Silenceable	FA [GGT]	1 110 [0G] [GGT]	0 [T]	0
Waterflow Alarm Non-Silenceable	SA [GGT]	1 113 [0G] [GGT]	0 [T]	0
Waterflow Alarm Restored Silenceable	FH [GGT]	3 110 [0G] [GGT]	2 [T]	2
Waterflow Alarm Restored Non-Silenceable	SH [GGT]	3 113 [0G] [GGT]	2 [T]	2
CO/Gas Alarm	GA [GGT]	1 151 [0G] [GGT]	2 [T]	0
CO/Gas Alarm	GH [GGT]	3 151 [0G] [GGT]	2 [T]	2
Trouble (except Waterflow or Special AMM/PID)	FT [GGT]	1 373 [0G] [GG0]	8 [T]	8
Trouble Restored	FJ [GGT]	3 373 [0G] [GG0]	7 [T]	7
Trouble (Waterflow AMM/PID)	ST [GGT]	1 370 [0G] [GG0]	8 [T]	8
Trouble Restored (Waterflow AMM/PID)	SJ [GGT]	3 203 [0G] [GG0]	7 [T]	7
Trouble (Special AMM/PID)	UT [GGT]	1 370 [0G] [GG0]	8 [T]	8
Trouble Restored (Special AMM/PID)	UJ [GGT]	3 370 [0G] [GG0]	7 [T]	7
Supervisory / Tamper (Module)	SS [GGT]	1 203 [0G] [GGT]	6 [T]	6
Supervisory Restored (Module)	SR [GGT]	3 203 [0G] [GGT]	7 [T]	7
PAS/Action/Supervisory (Sensor)	FS [GGT]	1 200 [0G] [GGT]	6 [T]	6
PAS/Action/Supervisory Restored (Sensor)	FR [GGT]	3 110 [0G] [GGT]	7 [T]	7
Disable (except Waterflow or Special AMM/PID)	FB [GGT]	1 571 [0G] [GGT]	8 [T]	8
Disable Restored	FU [GGT]	3 571 [0G] [GGT]	7 [T]	7
Disable (Waterflow AMM/PID)	SB [GGT]	1 570 [0G] [GGT]	8 [T]	8
Disable Restored (Waterflow AMM/PID)	SU [GGT]	3 570 [0G] [GGT]	7 [T]	7
Disable (Special AMM/PID)	UB [GGT]	1 570 [0G] [GGT]	8 [T]	8
Disable Restored (Special AMM/PID)	UU [GGT]	3 570 [0G] [GGT]	7 [T]	7
AC Fail	AT 0	1 301 [0G] [000]	80	8
AC Fail Restored	AR 0	3 301 [0G] [000]	70	7
Phone Line 1 Fault	LT 1	1 351 [0G] [000]	81	8
Phone Line 1 Fault Restored	LR 1	3 351 [0G] [000]	71	7
Phone Line 2 Fault	LT 2	1 352 [0G] [000]	82	8
Phone Line 2 Fault Restored	LR 2	3 352 [0G] [000]	72	7
Automatic Test (NORMAL)	RP 0	1 602 [0G] [000]	90	9
Automatic Test (With Exception)	RP 991	1 602 [0G] [991]	91	9
Begin Programming	LB [GG3]	1 627 [0G] [GG3]	93	9
End Programming	LX [GG3]	3 628 [0G] [GG3]	73	7
<b>E3 Series Releasing (Standard DACT Reporting Formats)</b>				
Trouble (Releasing Device) (Supervisory)	FS [GG3]	1 200 [0G] [GG3]	6 [3]	6
Trouble (Releasing Device) (Supervisory Restoral)	FR [GG3]	3 200 [0G] [GG3]	7 [3]	7
Pre-Alarm (Action Supervisory)	FS [GG3]	1 200 [0G] [GGZ]	6 [3]	6
Pre-Alarm (Action Restoral)	FR [GG3]	3 200 [0G] [GGZ]	7 [3]	7
Pre-Release (Alarm)	FA [GG1]	1 110 [0G] [GG1]	0 [1]	0
Pre-Release (Alarm Restoral)	FR [GG1]	3 110 [0G] [GG1]	2 [1]	2
Release (Alarm)	FA [GG1]	1 110 [0G] [GG1]	0 [1]	0
Release (Alarm Restoral)	FR [GG1]	3 110 [0G] [GG1]	2 [1]	2
Abort (Supervisory)	FS [GG3]	1 200 [0G] [GG3]	6 [3]	6
Abort (Supervisory Restoral)	FR [GG3]	3 200 [0G] [GG3]	7 [3]	7
Manual Dump (Alarm)	FA [GG1]	1 110 [0G] [GG1]	0 [1]	0
Manual Dump (Alarm Restoral)	FR [GG1]	3 110 [0G] [GG1]	2 [1]	2

**Table 4.2.1.1 DACT-E3 Contact ID Event Reporting Codes for Standard Formats**

<b>For Contact ID and SIA Formats:</b>	
<b>GG</b>	= In standalone systems, the group number assigned to the device, 00-99. = In networked systems, the node number where the device is located, 00-64 (000-122 in multi-ring networks).
<b>OG</b>	= In only multi-ring systems, represents the 100s digit of the node address.
<b>For Contact ID and SIA Formats: (Continued)</b>	
<b>T</b>	= Type of device or event causing the event to be reported. 0 = Any Device not listed below 1 = General Alarm Device 2 = Manual Station Alarm 3 = Supervisory Device (Non-latching) 4 = Supervisory Device (Latching) 5 = Waterflow (Non-silenceable) 6 = Smoke Alarm 7 = Non-reporting Device 8 = Multi-level Device 9 = CO/Gas Alarm Device
<b>Note:</b> Special AMM/PIDs include the following functions: Reset Switch, Silence Switch, Drill Switch, Alarm Acknowledge Switch, Trouble Acknowledge Switch.	

**Table 4.2.1.1 DACT-E3 Contact ID Event Reporting Codes for Standard Formats**

### 4.2.2 Custom Formats

The DACT-E3 can be configured to allow each SLC device to report a unique 3-digit code by selecting the Custom DACT Reporting Feature. The user must specifically enable this feature through configuration programming by using CAMWorks™. If you enable the Custom DACT Reporting feature, the system uses the Custom codes or optional fields. The system substitutes the custom formats or optional fields in place of the standard codes. To enable this feature, each ILI-MB-E3, ILI-S-E3 or SLP-E3 must have V1.3-806 or higher ILI Firmware installed. This feature is also available for the ILI95-MB-E3, ILI95-S-E3 or SLP-E3. For information on the DACT-E3 Contact ID Event Reporting Codes for Custom Formats, refer to Table 4.2.2.1. Figure 4.2.2.1 illustrates an example of the DACT Contact ID Reporting Codes for Custom formats used to configure the following types of systems.

STANDALONE SYSTEMS		CONTACT ID FORMAT			
CONTACT ID FORMAT	[R]	[EEE]	[GG]	[UUU]	
NOTE: Group Numbers are truncated to range [00-99].	[1]=New Event [3]=Restoral	Event Type	Group Number	Custom Device ID	
EXAMPLE	1 New Event	110 Fire Alarm	00 Group 00	095 Custom ID 095	
SINGLE-RING NETWORKED SYSTEMS		CONTACT ID FORMAT			
CONTACT ID FORMAT	[R]	[EEE]	[NN]	[UUU]	
	[1]=New Event [3]=Restoral	Event Type	Node Number	Custom Device ID	
EXAMPLE	1 New Event	110 Fire Alarm	09 Node 09	500 Custom ID 500	
MULTI-RING NETWORK SYSTEMS		CONTACT ID FORMAT			
CONTACT ID FORMAT	[R]	[EEE]	[NN]	[UUU]	
NOTE: Node Numbers above 99 are truncated to range [00-99].	[1]=New Event [3]=Restoral	Event Type	Node Number	Custom Device ID	
EXAMPLE	1 New Event	110 Fire Alarm	09 Node 09 or 109	880 Custom ID 880	

**Figure 4.2.2.1 Example of the DACT-E3 Contact ID Event Reporting Codes for Custom Formats**



**NOTE:** To use the Custom DACT Reporting Feature, all ILI-MB-E3, ILI-S-E3 and SLP-E3 nodes on the network must have V1.3-806 ILI Firmware installed as the minimum requirement. For additional information, refer to the CAMWorks Online Help.

Table 4.2.2.1 lists the DACT-E3 Contact ID Event Reporting Codes for the Custom Formats.

Event	SIA (See Note 2)	Contact ID	4/2 (See Note 3)	3/1
<b>(Custom DACT Reporting Formats)</b>				
Fire Alarm (Smoke or Manual Station)	FA (UUU)	1 110 (NN) (UUU)	0 (U)	0
Fire Alarm Restored	FH (UUU)	3 110 (NN) (UUU)	2 (U)	2
Waterflow Alarm Silenceable	FA (UUU)	1 110 (NN) (UUU)	0 (U)	0
Waterflow Alarm Non-Silenceable	SA (UUU)	1 113 (NN) (UUU)	0 (U)	0
Waterflow Alarm Restored Silenceable	FH (UUU)	3 110 (NN) (UUU)	2 (U)	2
Waterflow Alarm Restored Non-Silenceable	SH (UUU)	3 113 (NN) (UUU)	2 (U)	2
CO/Gas Alarm	GA (UUU)	1 151 (NN) (UUU)	0 (U)	0
CO/Gas Alarm	GH (UUU)	3 151 (NN) (UUU)	2 (U)	2
Trouble (except Waterflow or Special AMM/PID)	FT (UUU)	1 373 (NN) (UUU)	8 (U)	8
Trouble Restored	FJ (UUU)	3 373 (NN) (UUU)	7 (U)	7
Trouble (Waterflow AMM/PID)	ST (UUU)	1 370 (NN) (UUU)	8 (U)	8
Trouble Restored (Waterflow AMM/PID)	SJ (UUU)	3 203 (NN) (UUU)	7 (U)	7
Trouble (Special AMM/PID)	UT (UUU)	1 370 (NN) (UUU)	8 (U)	8
Trouble Restored (Special AMM/PID)	UJ (UUU)	3 370 (NN) (UUU)	7 (U)	7
Supervisory / Tamper (Module)	SS (UUU)	1 203 (NN) (UUU)	6 (U)	6
Supervisory Restored (Module)	SR (UUU)	3 203 (NN) (UUU)	7 (U)	7
PAS/Action/Supervisory (Sensor)	FS (UUU)	1 200 (NN) (UUU)	6 (U)	6
PAS/Action/Supervisory Restored (Sensor)	FR (UUU)	3 110 (NN) (UUU)	7 (U)	7
Disable (except Waterflow or Special AMM/PID)	FB (UUU)	1 571 (NN) (UUU)	8 (U)	8
Disable Restored	FU (UUU)	3 571 (NN) (UUU)	7 (U)	7
Disable (Waterflow AMM)	SB (UUU)	1 570 (NN) (UUU)	8 (U)	8
Disable Restored (Waterflow AMM/PID)	SU (UUU)	3 570 (NN) (UUU)	7 (U)	7
Disable (Special AMM/PID)	UB (UUU)	1 570 (NN) (UUU)	8 (U)	8
Disable Restored (Special AMM/PID)	UU (UUU)	3 570 (NN) (UUU)	7 (U)	7
AC Fail	AT 0	1 301 (NN) (UUU)	80	8
AC Fail Restored	AR 0	3 301 (NN) (UUU)	70	7
Phone Line 1 Fault	LT 1	1 351 (NN) (UUU)	81	8
Phone Line 1 Fault Restored	LR 1	3 351 (NN) (UUU)	71	7
Phone Line 2 Fault	LT 2	1 352 (NN) (UUU)	82	8
Phone Line 2 Fault Restored	LR 2	3 352 (NN) (UUU)	72	7
Automatic Test (NORMAL)	RP 0	1 602 (NN) (UUU)	90	9
Automatic Test (With Exception)	RP 991	1 602 (NN) (UUU)	91	9
Begin Programming	LB (900)	1 627 (NN) [900]	90	9
End Programming	LX (900)	3 628 (NN) [900]	70	7
<b>E3 Series Releasing (Custom DACT Reporting Formats)</b>				
Trouble (Releasing Device) (Supervisory)	FS [UUU]	1 200 [NN] [UUU]	6 [U]	6
Trouble (Releasing Device) (Supervisory Restoral)	FR [UUU]	3 200 [NN] [UUU]	7 [U]	7
Pre-Alarm (Action Supervisory)	FS [ZZZ]	1 200 [NN] [ZZZ]	6 [Z]	6
Pre-Alarm (Action Restoral)	FR [ZZZ]	3 200 [NN] [ZZZ]	7 [Z]	7
Pre-Release (Alarm)	FA [ZZZ]	1 110 [NN] [ZZZ]	0 [Z]	0
Pre-Release (Alarm Restoral)	FR [ZZZ]	3 110 [NN] [ZZZ]	2 [Z]	2
Release (Alarm)	FA [ZZZ]	1 110 [NN] [ZZZ]	0 [Z]	0
Release (Alarm Restoral)	FR [ZZZ]	3 110 [NN] [ZZZ]	2 [Z]	2
Abort (Supervisory)	FS [ZZZ]	1 200 [NN] [ZZZ]	6 [Z]	6
Abort (Supervisory Restoral)	FR [ZZZ]	3 200 [NN] [ZZZ]	7 [Z]	7
Manual Dump (Alarm)	FA [ZZZ]	1 110 [NN] [ZZZ]	0 [Z]	0
Manual Dump (Alarm Restoral)	FR [ZZZ]	3 110 [NN] [ZZZ]	2 [Z]	2

**Table 4.2.2.1 DACT-E3 Contact ID Event Reporting Codes for Custom Formats**

Event	SIA (See Note 2)	Contact ID	4/2 (See Note 3)	3/1
<b>Contact ID and SIA Formats</b>				
<b>For Contact ID and SIA Formats:</b>				
<b>NN</b> = In standalone systems, the group number assigned to the device (00-99). = In networked systems, the node number where the device is located, (00-65). = In multi-ring systems, the node number where the device is located, (000-122). Note: Node numbers greater than 99 are truncated.				
<b>UUU</b> = User-configured ID code (events originating from SLC devices using custom codes 001 = 899, if configured) or event type code (used only for non-SLC device events). For details, see "Non-SLC Device Event Reporting Codes".				
<b>NOTES</b>				
<b>Note 1:</b> Special AMM/PIDs include the following functions: Reset Switch, Silence Switch, Drill Switch, Alarm Acknowledge Switch, Trouble Acknowledge Switch.				
<b>Note 2:</b> In SIA format, two reports transmit the extended codes (if configured). See Notes 4 & 5.				
<b>Note 3:</b> In 4/1 format, the "one's" digit of the user-assigned code is reported (if configured). See Notes 4 and Note 5.				
<b>Note 4:</b> The UUU digits will always be 000 for events originating on the INI-7100, INI-VGC, INI-VGX, INI-VGE and NGA nodes.				
<b>Note 5:</b> The DACT-E3 reports the node number and 000 as the "UUU" digits if an event occurs on an SLC device that does not have a user-configured code assigned to it and the system is configured to report custom DACT codes.				
<b>Note 6:</b> [ZZZ] indicates the Releasing Zone affected. It ranges from 943 to 950 (representing Releasing Zones 1-8).				
<b>Note 7:</b> When [Z] is used for the 4/2 format, it may range from 3 to 0 (representing Releasing Zones 1-8). Releasing Zone 1 reports as 3, while Releasing Zone 8 reports as 0.				

**Table 4.2.2.1 DACT-E3 Contact ID Event Reporting Codes for Custom Formats (Continued)**

### 4.3 Reporting Codes for Non-SLC-Devices

For events that do not originate on SLC devices, the DACT-E3 reports extended codes in the range 900-999. These codes are not user-configurable. Table 4.3.1 lists the extended codes.

Code	Event	Comment
000	Phone Line Test	Automatic DACT test OK
001 - 899	SLC Device Codes	User-defined in device configuration
900	Programming Mode	Programming
901	SLC 1	Loop Break, Short, or Disconnect
902	SLC 2	Loop Break, Short, or Disconnect
903	NAC 1	Fault, Short, or Disconnect
904	NAC 2	Fault, Short, or Disconnect
905	Municipal Circuit	Master Box Trouble
906	Aux Power Fault	Resettable or Non-Resettable B+ Fault
907	Municipal Circuit Supervision	
908	Positive Ground Fault	
909	Negative Ground Fault	
910	RS-232 Supervision Fault	
911	Annunciator Fault	
912	PM-9/PM-9G Supervision Fault	
913	Battery Low	
914	Battery Fault	
915	AC Fault	
916	DC Fault	
917	Reserved	
918	Battery Charger Fault	
919	NAC 3, SLP Only	
920	NAC 4, SLP Only	
921	Access Fail	
922	Silent Walk Test	
923	Audible Walk Test	
924	MNS Reset	
925	DACT Account 1 Fault	
926	DACT Missing	

**Table 4.3.1 Non-SLC Device Events Reporting Codes**

Code	Event	Comments
927	DACT Report Time out	
928	DACT Account 2 Fault	
929	DACT Line 1 Fault	
930	DACT Line 2 Fault	
931	INI Communication Fault	
932	INI Node Number Fault	Issued if node address DIP switches do not match the node number in the node's configuration.
933	Net Port 1	
934	Net Port 2	
935	Fan Restart	
936	User 1	
937	User 2	
938	User 3	
939	User 4	
940	User 5	
941	Node 0	
942	Reserved	
943	Releasing Zone 1	
944	Releasing Zone 2	
945	Releasing Zone 3	
946	Releasing Zone 4	
947	Releasing Zone 5	
948	Releasing Zone 6	
949	Releasing Zone 7	
950	Releasing Zone 8	
951 - 981	Cross Zone 1 - 31	Cross Zone 31 (981) is used to report Group Cross Zone Events.
982	Node Missing	Any Node Missing Trouble, does not indicate a specific node
983	Node Extra	Any Node Extra Trouble does not indicate a specific node
984	LCD Display Fault	Any LCD Display Fault (LCD-E3, LCD-7100 or LCD-SLP) (does not indicate a specific display)
985	Any ASM-16 or ANU-48	Does not indicate a specific ASM-16 or ANU-48
986	Any non-SLC Event	Any non-SLC Event that is not otherwise listed in the Table.
987-990	Reserved	
991	Test with exception	Automatic DACT test OK, but Trouble, or Off-Normal condition present in the system.
992 - 999	Reserved	

**Table 4.3.1 Non-SLC Device Events Reporting Codes (Continued)**

## 4.4 Telephone Requirements

- DC Ringer Equivalence Number (REN) = 0.5B • AC Ringer Equivalence Number = 1.3 • Complies with FCC Part 8

The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five. To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the Telephone Company to determine the maximum REN for the calling area.



**NOTE: Communication Line Test Requirement:**

To comply with UL 864 10th Edition, the System self-tests the communication line between the communicator and the receiver, 4-24 DACT Test Time Settings per day.

## Section 5: Reference Documentation

Table 5.1 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](http://www.gamewell-fci-esd.com)).

Part Number	Title
<b>UL Listing Document</b>	
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
<b>Manuals</b>	
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
LS10138-151GF-E	E3 Series Releasing System Supplement
<b>Installation Instructions</b>	
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 Network Audio Transponder Enclosures Instructions
9000-0546	INCC (Intelligent Network Interface) Installation Instructions
9000-0548	PM-9 (Power Supply) Installation Instructions
9000-0549	INI-VG Series (Intelligent Network Interface) 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
9000-0582	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
9001-0065	E3BB-FLUSH-LCD-CAB A2 Remote Flush Annunciator Installation Instructions
9001-0066	RAN-7100 (Remote Alphanumeric Annunciator) Installation Instructions
LS10044-000GF-E	SLC-PM/SLC95-PM 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
LS10218-000GF-E	INI-VG Series (Intelligent Network Transponder-Voice Gateway-Third Generation) Instructions
LS10222-000GF-E	NGA (Network Graphic Annunciator-Second Generation) Installation Instructions
<b>Addendum/Frame and Posts</b>	
9000-0427-L8	Compatibility Addendum to Gamewell-FCI Installation/Operation Manuals UL File S1869 Vol. 8C
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 5.1 Reference Documents**

### Honeywell Gamewell-FCI

12 Clintonville Road  
 Northford, CT 06472-1610  
 203.484.7161  
[www.gamewell-fci.com](http://www.gamewell-fci.com)

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