

## Description

The Gamewell-FCI 7100 Series fire alarm control panel is a multi processor-based, analog addressable system. The control panel is a compact, yet expandable, platform. Intended for commercial, industrial and institutional installations, the 7100 Series is ideal for life safety and property protection fire alarm applications.

The basic 7100 Series control panel provides one (1) or two (2), analog addressable Signaling Line Circuits (SLCs). Each SLC supports up to ninety-eight (98) analog addressable sensors, as well as up to ninety-nine (99) addressable monitor modules and/or control points. With 197 addresses available on the 7100-1 and 394 addresses available on the 7100-2. The 7100 uses an advanced protocol that ensures an almost instant response to events while at the same time suppressing nuisance alarms.

The system may be programmed with either the Windows®-based Field Configuration Program (FCP-7100) or configured through a comprehensive set of intuitive, secure password protected front-panel programming options. This important feature allows the system to quickly adapt to any future requirements due to changes in occupancies, building remodels, or other contingencies.

The sophisticated circuitry and powerful analog software enables the 7100 Series fire alarm control panel to read the specific sensitivity level of each sensor and compensate for changes due to age, dust accumulation or other environmental factors. The 7100 incorporates the Gamewell-FCI Listed Integrated Sensitivity Testing (LIST) which meets NFPA 72 sensitivity testing and maintenance requirements. The LIST testing allows substantial savings in both maintenance and service while eliminating nuisance alarms.

The Model 7100-1D and 2D features an integral Digital Alarm Communicator Transmitter (DACT) with all popular transmission formats and a 16-digit telephone number field. It is 8-digit Carrier Information Code (CIC) compliant and also prevents "dialer-runaway" in the event of intermittent system faults. The 7100-1D and 2D are UL Listed for

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## Compact Analog Addressable Fire Alarm Control Panel



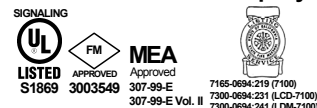
7100 Series

## Features

- Listed per ANSI/UL 864 9th Edition
- 120 or 240 VAC (optional) input line voltage
- Front panel programming with day/night sensitivity adjustments
- 80-character alpha-numeric display
- One or two Style 4 (Class "B") signaling line circuits. Style 6 (Class "A") with optional CAOM Module
- Two Style Y (Class "B") regulated notification appliance circuits rated for 1.5 amp. each. Style Z (Class "A") with optional CAOM Module
- Suitable for pre-action deluge applications with optional MCOM Module
- Periodic trouble reminder
- Individual sensor drift compensation
- Dual-stage maintenance alerts ("dirty" and "very dirty")
- Multilevel sensor sensitivity adjustments (front panel programmable)

*continued on the next page*

An ISO 9000-2000 Company



### GAMEWELL-FCI

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## Description (Continued)

Remote Station, Proprietary, and Central Station fire alarm systems. It allows ample space for wiring and room for batteries up to 7 A/H capacity.

## Features (Continued)

- Alarm verification per individual sensor
- Positive alarm sequence for sensors or monitor modules
- Four levels of system access using six (6), digit passwords with up to five (5), user passwords per Level
- Duplicate and extra address indications
- March time (60 or 120 BPM)/temporal pattern/coded fours/California Code/user-defined zone coding
- Cross zoning
- System configuration programming and 280 event log stored in non-volatile memory
- Fan restart with sequential restart delay
- Upload/download of panel configuration between panel and FCP-7100 program (password protected feature)
- Up to sixty-four (64), 7100 panels in the E3 Broadband network with an optional INI-7100 Module

## Optional Accessories

### LCD-7100

The LCD-7100 remote serial display offers an 80-character alphanumeric readout for the remote display of all system events. It duplicates all the information on the 7100 Series panel display and provides key switch protected functions such as System Reset, Alarm Acknowledge, Trouble Acknowledge, Signal Silence, and Drill Test.

LEDs on the LCD-7100 indicate Alarm, Supervisory, System Trouble, Power Fault, Systems Silenced, NAC#1, and NAC#2 Silenced conditions.

The LCD-7100 can be surface or semi-flush mounted on a standard four-gang electrical box. It can be installed up to 4,000 feet (1,219 m) from the main control panel. The 7100 Series fire alarm control panel supports up to five (5), remote LCD-7100 annunciators using one pair of twisted, non-shielded 18 AWG min. wire or serial communication and uses another pair of 16 AWG min. for operating voltage.

(For additional information, refer to the LCD-7100 data sheet, Part Number: 9020-0486).

### LDM-7100

The LED Driver Module (LDM-7100) is designed to mount in a UL Listed remote annunciator and provides outputs for remote panel switches and thirty-three (33), remote LEDs. Three (3), LDM-7100 modules may be installed in a single annunciator for a total of ninety-nine (99), LEDs per annunciator. This combination may be repeated up to five times for a total of fifteen (15), LDM-7100 panels installed at up to five (5), different locations. Maximum distances of up to 4,000 feet (1,219 m) can be achieved using one pair of twisted, non-shielded wire for serial communication and using another pair of straight-lay wire for operating voltage. (For additional information, refer to the LDM-7100 data sheet, Part Number: 9020-0519).

### CAOM

The Class "A" Optional Module (CAOM) allows Style Y and Z (Class "B" and "A") operation for both Notification Appliance Circuits and allows Style 4 and 6 (Class "B" and "A") for both Signaling Line Circuits. It also provides disconnect switches for each signaling line circuit and a common disconnect switch for both notification appliance circuits.

### MCOM

The Municipal Connection Option Module (MCOM) provides three (3) choices of outputs. It can be configured as a Municipal Circuit (City Box) output. It may also be set to serve as a Reverse Polarity output with a nominal voltage output of 24 VDC at 0.012 amp. maximum alarm and supervisory current. The MCOM's third option provides a releasing solenoid output rated at:

- 24 VDC nominal voltage.
- 0.005 amp. supervisory current.
- 0.710 amp. maximum alarm current.
- 2 ohms maximum line resistance.

### PTRM

The Printer Transient Module (PTRM) provides RS-232 Isolator/Transient protection for the 7100's RS-232 port (BSM connector J2). It is used in conjunction with a serial printer applied to the RS-232 port for permanent record keeping.

### INI-7100

The Intelligent Network Interface Module allows the 7100 Series fire alarm control panel to become the platform of a peer-to-peer, token ring, self-regenerative network comprised of up to sixty-four (64), 7100 panels.

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## Specifications

<b>Primary Input Power</b>	120 VAC, 50/60 Hz @ 2.0 amps. or 240 VAC, 50/60 Hz @ 1.0 amp.	
<b>Output Power</b>	4 amps. @ 24 VDC (total)	
<b>Non-resettable Power:</b>	1.0 amp. max.	
	1.0 amp. max. from both circuits	
<b>Resettable Power:</b>	1.0 amp. max.	
<b>Two (2) Notification</b>		
<b>Appliance Circuits:</b>	1.5 amp. each @ 24 VDC	
<b>Current:</b>	Supervisory	Alarm
<b>7100-1 (One SLC)</b>	0.065 amp.	0.085 amp.
<b>7100-1D</b>	0.085 amp.	0.105 amp.
<b>(One SLC w/DACT)</b>		
<b>7100-2 (Two SLC)</b>	0.065 amp.	0.085 amp.
<b>7100-2D</b>		
<b>(Two SLC w/DACT)</b>	0.085 amp.	0.105 amp.
<b>LCD-7100</b>	.012 amp.	.023 amp.
<b>LDM-7100</b>	.012 amp.	.023 amp.
		(All LEDs lit)
<b>INI-7100-UTP,-FO</b>	0.040 amp.	0.040 amp.
<b>Operating</b>		
<b>Temperature:</b>	32° - 120° F (0° - 49° C)	
<b>Relative Humidity:</b>	85 % (non-condensing)	
<b>Battery Charger</b>		
<b>Capacity:</b>	31 A/H (Cabinet accommodates 12 A/H size batteries)	
<b>Alarm &amp; Trouble</b>		
<b>Relay Contacts:</b>	Form "C", 2 amps. @ 24 VDC (resistive)	

## Ordering Information

### Systems

Model	Description
<b>7100-1</b>	7100 Addressable System, 1 SLC mounted in enclosure
<b>Dimensions:</b>	19 3/8" x 19 3/8" (49 x 49 cm) Enclosure
<b>7100-1D</b>	7100 Addressable FACP w/DACT, 1 SLC mounted in enclosure
<b>Dimensions:</b>	19 3/8" x 19 3/8" (49 x 49 cm) Enclosure
<b>Basic Kits</b>	
<b>BK-7100-2</b>	Basic System Kit, 2 SLC (BSM, Keypad Display, Transformer)
<b>BK-7100-2D</b>	Basic System Kit w/DACT, 2 SLC
<b>BK-7100-2-240V</b>	Basic System Kit, 2 SLC, 240 VAC
<b>BK-7100-2D-240V</b>	Basic System Kit w/DACT, 2 SLC
<b>Cabinets</b>	
<b>EN-7100</b>	Enclosure (replacement)
<b>CS-7100M</b>	Metal Door (replacement)
<b>7100-ENCL-M</b>	7100 Enclosure
<b>Dimensions:</b>	16.9" H x 14.4" W x 3" D I (43 H x 37 W x 7.7 D cm)
<b>NS-7100B</b>	Enclosure, E3 Series Broadband, black Enclosure,
<b>NS-7100R</b>	E3 Series Broadband, red
<b>Dimensions:</b>	19 3/8" H x 19 3/8" W x 4" D (49 H x 49 W x 10 D cm)

## Ordering Information (Continued)

### Optional Modules

<b>LCD-7100</b>	Remote Serial Annunciator, LCD Display (80-character)
<b>Dimensions:</b>	4.25" H x 8.25" W x 1.90" (43 H x 37 W x 7.7 D cm)
<b>LDM-7100</b>	Remote LED Driver Module
<b>Dimensions:</b>	6" W x 4.50" (15.2 x 11.4 cm)
<b>CAOM</b>	Class A Option Combination Module with disconnect switches for both signaling line circuits and notification appliance circuits
<b>MCOM</b>	Municipal Connection Option Module for local energy city box reverse polar- ity signaling, or releasing solenoid
<b>PTRM</b>	Printer Transient Module
<b>INI-7100-FO</b>	Intelligent Network Interface Module, Fiber-Optic
<b>INI-7100-UTP</b>	Intelligent Network Interface Module, Unshielded, Twisted-Pair
<b>Replacement Parts</b>	
<b>T-7100</b>	Transformer, 120 VAC input (replace- ment)
<b>T-7100-240</b>	Transformer, 240 VAC input (replace- ment)
<b>BSM-7100-1</b>	Replacement board for 7100-1
<b>BSM-7100-1D</b>	Replacement board for 7100-1D

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