7100 Series

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 analog addressable Signaling Line Circuit (SLC), whether supports up to 99 analog addressable sensors, as well as supporting up to 98 addressable monitor modules and/or control points, totaling 197 addresses. 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 the CAMWorks™ programming utility tool 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 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 is UL Listed for Remote Station, Proprietary, and Central Station fire alarm systems. It allows ample space for wiring and room for batteries up to 12 A/H capacity.

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Compact Analog Addressable Fire Alarm Control Panel



7100 Series

Features

- Listed under ANSI/UL® Standard 864 9th Edition.
- IBC Seismic Certified.
- 120 or 240 VAC (optional) input line voltage.
- Front panel programming with day/night sensitivity adjustments.
- 80-character alpha-numeric display.
- One Style 4 (Class “B”) signaling line circuit. 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.
- FM/UL® Listed for Pre-action/Deluge 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).
- Alarm verification per individual sensor.
- Positive alarm sequence for sensors or monitor modules.

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SIGNALING
UL LISTED S1869
FM APPROVED 3003549
MEA Approved FDNY COA #s 307-99-E 307-99-E Vol. II
6911-1703:0116 (Non-High Rise) 6911-1703:0118 (High Rise) 7300-1703:0106 (LCD-7100)
THE VMC GROUP Reference Certificate of Compliance VMA-45894-02C (Revision 1)

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS
GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118
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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 3,000 feet (914.4 m) from the main control panel. The 7100 Series fire alarm control panel supports up to five 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).

RAN-7100
The RAN-7100 maintains the same character display as the 7100 Series. The RAN-7100 is mounted in a RAN2-BB backbox for surface or flush mounting retrofits.

(For additional information, refer to the Gamewell Retrofit Kits Data Sheet, P/N: 9020-60678).

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 the Signaling Line Circuit. It also provides a disconnect switch for the signaling line circuit and a common disconnect switch for both notification appliance circuits.

MCOM
The Municipal Connection Option Module (MCOM) provides three 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 64, 7100 panels.

Features (Continued)

- Four levels of system access using six digit passwords with up to five 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 CAMWorks program (password protected feature).
- Up to 64, 7100 panels in the E3 Broadband network with an optional INI-7100 Module.

Specifications

Primary Input Power	120 VAC, 50/60 Hz @ 2.0 amps. or 240 VAC, 50/60 Hz @ 1.0 amp	
Output Power	3.335 amps. @ 24 VDC (total)	
Non-resettable Power:	1.0 amp max.	
Resettable Power:	1.0 amp max.	
	1.0 amp max. from both power circuits	
Two Notification Appliance Circuits:	1.5 amp each @ 24 VDC	
Current:	**Supervisory**	**Alarm**
7100-1 (One SLC)	0.065 amp	0.085 amp
7100-1D (One SLC w/DACT)	0.075 amp	0.095 amp
LCD-7100	0.050 amp	0.075 amp
INI-7100-UTP,-FO	0.040 amp	0.040 amp
Operating Temperature:	32° - 120° F (0° - 49° C)	
Relative Humidity:	93 % (non-condensing)	
Battery Charger Capacity:	31 A/H (Cabinet accommodates 12 A/H size batteries)	
Alarm & Trouble Relay Contacts:	Form "C", 2 amps. @ 24 VDC (resistive)	

Ordering Information

Systems

Part Number	Description
7100-1-PNL	7100 Addressable FACP, 1 SLC mounted in the 7100-CAB enclosure, red
7100-1D-PNL	7100 Addressable FACP w/DACT, One SLC mounted in 7100-CAB enclosure, red

Basic Kits

1100-1313	Basic System Kit, 2 SLC, 240 VAC

Optional Modules

LCD-7100	Remote Serial Annunciator, LCD Display (80-character).
Dimensions:	4.25” H x 8.25” W x 1.90” (43 H x 37 W x 7.7 D cm)
RAN-7100	Remote Series Annunciator, LCD Display (80-character).
Dimensions:	10” W x 5 1/4” H x 2 7/16” D (25 1/4 W x 13 1/3 H x 6 9/10 D cm)
CAOM	Class A Option Combination Module with disconnect switches for both signaling line circuits and notification appliance circuits.
MCOM	Municipal Connection Option Module for local energy city box reverse polarity signaling, or releasing solenoid.
PTRM	Printer Transient Module.
INI-7100-FO	Intelligent Network Interface Module, Fiber-Optic.
INI-7100-UTP	Intelligent Network Interface Module, Unshielded, Twisted-Pair.

Ordering Information (Continued)

Replacement Parts

Part Number	Description
BSM-7100-1	Replacement board for 7100-1
BSM-7100-1D	Replacement board for 7100-1D
BSM-7100-2	Replacement board for 7100-2
BSM-7100-2D	Replacement board for 7100-2D

Seismic Battery Bracket Kits

90516	7100-Slim 7 A/H Seismic Battery Bracket kit E3 B-Slim 7 A/H Seismic Battery Bracket Kit
90517	7100-Slim 12 A/H Seismic Battery Bracket Kit E3 B-Slim 12 A/H Seismic Battery Bracket Kit
90518	NetSOLO 7100 7 A/H Seismic Battery Bracket Kit

For additional information on the Seismic Battery Brackets, refer to the following documents:

- Seismic Battery Bracket Installation Guide, P/N: 53839
- E3 Series Cabinets Data Sheet, P/N: 9020-0649