



by Honeywell

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 or two analog addressable Signaling Line Circuits (SLCs). Each SLC supports up to 99 analog addressable sensors, as well as supporting up to 98 addressable monitor modules and/or control points. There are 197 addresses available on the 7100-1 and there are 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 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 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.
- 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).

continued on the next page

SIGNALING



LISTED
S1869



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)

7300-1703:0111 (LDM-7100)



THE VMA GROUP
Reference
Certificate
of Compliance
VMA-45894-02C
(Revision 1)



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 12 A/H capacity.

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 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).

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 remote LEDs. Three LDM-7100 modules may be installed in a single annunciator for a total of 99 LEDs per annunciator. This combination may be repeated up to five times for a total of fifteen, LDM-7100 panels installed at up to five 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.

Features (Continued)

- Alarm verification per individual sensor.
 - Positive alarm sequence for sensors or monitor modules.
 - 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 FCP-7100 program (password protected feature).
- Up to 64, 7100 panels in the E3 Broadband network with an optional INI-7100 Module.

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.

GAMEWELL-FCI

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 circuits

Two (2) 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
7100-2 (Two SLC)	0.065 amp	0.085 amp
7100-2D (Two SLC w/DACT)	0.085 amp	0.105 amp
LCD-7100	0.050 amp	0.075 amp
LDM-7100	0.035 amp	0.200 amp (All LEDs lit)

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

Basic Kits

1100-1311	Basic System Kit, 2 SLC (BSM, Keypad Display, Transformer)
1100-1312	Basic System Kit w/DACT, 2 SLC
1100-1313	Basic System Kit, 2 SLC, 240 VAC
1100-1314	Basic System Kit w/DACT, 2 SLC, 240 VAC

Cabinets

7100-CAB	7100-Slim (Narrow Enclosure, red) 14.09" W x 20.1" H x 4.55" D (35.8 W x 54.61 H x 11.55 D cm) Enclosure
1100-0480	Enclosure, E3 Series Broadband, black Enclosure
1100-0481	E3 Series Broadband, red
Dimensions:	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

Part Number	Description
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)
LDM-7100	Remote LED Driver Module Dimensions: 6" W x 4.50" (15.2 x 11.4 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.
Replacement Parts	
T-7100	Transformer, 120 VAC input (replacement)
T-7100-240	Transformer, 240 VAC input (replacement)
BSM-7100-1	Replacement board for 7100-1
BSM-7100-1D	Replacement board for 7100-1D

Seismic Battery Bracket Kits

Part Number	Description
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

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