600 Series
IdentiFlex 610

Analog Addressable Control Panel

Description

The IdentiFlex 610 (IF610) is suited for small- to medium-sized installations of commercial, institutional, and industrial life-safety applications. The IF610 offers all the features of today's most advanced life safety systems. The integration of analog and addressable hardwired circuits allows system engineers to customize panels and maximize efficiency for a given application. The IF610 can be networked with up to 256 other 600 Series panels using Gamewell-FCI's SmartLink™ peer-to-peer network.

The IF610 can monitor and control up to 504 analog addressable input/output points. Analog circuits are backed up by Gamewell-FCI's Default Alarm Mode for added security. The 1,000-event history log furnishes a complete record of system activities. The interactive operator's display uses LED prompting for ease of programming and user operation. The alphanumeric display and keypad simplify field programming, or program from a PC using Gamewell-FCI's Smart Program II programmer.

The IF610's cabinet will fit between studs for semi-flush mounting. The compact design and key-activated dead-front construction enables secure routine maintenance of the system. Access to system function keys is limited by a key switch. Multiple levels of password protection prevent unauthorized use. The circuit boards are mounted on a removable chassis, and are designed with pluggable terminal strips for ease of installation and service.

Operator's Display

The IF610's operator's display provides all user access to the system. The display has all the necessary keys and annunciation points to maintain and monitor the system. Alarm, supervisory, and trouble conditions are indicated on the operator's display by dedicated LEDs and an internal sounder. The Acknowledge, Reset, and Signal Silence keys are located directly below the 4-line by 40-character backlit alphanumeric display. All system functions and operational logic can be programmed directly from the front panel.

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IF610

Features

- One to four Signaling Line Circuits (SLC), up to 504 points.
- Polarity-insensitive SLC circuit wiring (XP95 protocol).
- SmartStart™ self-programming logic.
- Programmable by PC or front panel.
- Password protected.
- Approved for Suppressant Releasing and Supervisory Service.
- Fully digital SLC protocol.
- SmartLink™ networkable.
- 1000-event history log.
- Automatic drift compensation.
- Coded signaling capability.
- Adjustable sensor sensitivity and temperature settings.
- Day/night sensitivity setting.
- Supervisory service.
- Style 6 (Class A) or Style 4 (Class B) SLC.
- Two Style Y (Class B), or two Style Z (Class A) notification appliance circuits (NACs).
- Semi-flush mounting (between 16" studs).
- 160-character display.
- Optional integrated voice evacuation.
- Optional UDACT.
- Agent Releasing service.

An ISO 9000-2000 Company

SIGNALING

UL LISTED S521   FM APPROVED   MEA Approved 132-95-E   City of Chicago Approved High Rise   7165-1288:144 7170-1288:146

Analog Addressable Signaling Line Circuits

The IF610 analog interface module provides one to four Signaling Line Circuits (SLC), circuits that can monitor and control up to 126 analog/addressable devices on each power-limited circuit, for a total of 504 analog points in a four-SLC system. Circuit wiring is not polarity sensitive.

Each SLC has a dedicated microprocessor that simultaneously communicates with connected field devices and the main CPU.

The IF610 uses XP95 fully digital communications protocol for superior speed and accuracy of event reporting. This protocol provides alarm verification per detector, detector adjustability and compensation, adjustable analog heat detector range (131°F to 194°F, 55°C to 90°C), circuit isolation, and priority interrupts. Priority interrupts allow contact-type devices such as manual fire alarm stations to interrupt the polling cycle and transmit their addresses at any time.

With this fully digital protocol, the IF610 will operate on most types of field wiring, greatly expanding its use in retrofit applications. Consult Gamewell-FCI Technical Support for specific wiring requirements.

IF610 Power Supply

The IF610 power supply is a fully regulated 6 amp supply that furnishes system operating and signaling power. It is equipped with a battery charger which maintains the secondary power source. The power supply is monitored by the main CPU, ensuring that adequate power is available. The power supply design allows for high efficiency while providing precise power output. The battery charger maintains batteries up to 26 AH. The supply powers two (2) on-board NACs (Class A or B).

I/O Devices

Addressable control output devices are the interface between analog circuits and building functions. The outputs are controlled by Control By Event (CBE) software within the IF610, and can be programmed to respond to any event. The control devices can also be used as supervised remote signaling circuits.
The IF610's RS-232 output expands system monitoring and control capabilities.

Remote Display and Control

System designers and engineers can add serial annunciators to display system activity and control. Serial annunciator drivers are available in 16-point increments and are an ideal interface to graphic annunciators. Switches can be used for Acknowledge, Reset, Signal Silence, Drill, etc., to customize the remote status control network. An alphanumeric display can also be used for remote status and control. The alphanumeric display will communicate over the serial communications network.

The IF610 can communicate locally or remotely with a printer to document system activity. See the RAN/SAN data sheets (CS-2025 and CS-2027) for the complete annunicator details.

Applications

The IF610 Analog Addressable Control Panel is designed for new or retrofit small- to mid-sized projects that require state-of-the-art life-safety systems. The embedded CPU offers users unrivaled reliability.

With compatible analog sensors and addressable input and control interface devices, and its remote status and control capabilities, the IF610 provides system engineers with all the tools necessary to design effective system solutions.

The IF610 can also control bulk fire-suppressant materials releasing. The IF610 is capable of releasing the following NFPA types of suppressant: 13 Sprinkler, 15 Water Spray, 11 Low-Expansion Foam, 16 Water Foam, 17 Dry Chemical, and 2001 Clean Agent.

Architectural/Engineering Specifications

The control panel furnished and installed shall be capable of supporting 504 addressable devices and four (4) analog SLCs. The panel shall use a fully digital Signaling Line Circuit (SLC) protocol. The panel shall contain two (2) Notification Appliance Circuits (NACs) that support multiple synchronization protocols. The panel shall use a 160-character Liquid Crystal Display (LCD) and a 1,000-event history log. The panel shall be a Gamewell-FCI IF610.

Specifications

Common Control
Standby Current: 0.125A.
Alarm Current: 0.171A plus NAC power, plus
0.002A for master box, or plus
0.022A for reverse-polarity
Input Power: 120 VAC, 2.0A
Auxiliary Output:
S+/S–, A+/A–: 24 VDC, 2.0A combined maximum
Common Relays:
1.0A @ 30 VDC, or 0.5A @ 250 VAC
Signaling Circuits: 24 VDC nominal @ 2.0A per circuit

Analog SLCs
IF610-126 points: Standby current 0.045A,
alarm current 0.045A
IF610-252 points: Standby current 0.055A,
alarm current 0.055A
IF610-504 points: Standby current 0.075A,
alarm current 0.075A

Panel Dimensions:
Standard Cabinet: 20.0" H x 14.0" W x 4.5"
(50.8 H x 35.56 W x 11.43 D cm)
XL Cabinet: 30.0" H x 22.0 W x 5.5" D
(76.2 H x 55.88 W x 13.97 D cm)
Battery Storage Dimensions:
8.0" H x 14.25" W x 6.0" D
(20.3 H x 36. W x 15.2 D cm)
Standard Cabinet: 6.0" H x 9.0" W x 4.5" D
(15.5 H x 22.86 W x 11.43 D cm)
XL Cabinet: 14" H x 22.0" W x 5.5" D
(35.56 H x 55.88 W x 13.97 D cm)
Relative Humidity: 93% non-condensing
Temperature Rating: 32° – 120°F (0° – 49°C)

Ordering Information

Model	Description
IF610-126	IdentiFlex 610 base analog/addressable system consisting of the following:

- IF610 common control that includes:
  - Main CPU
  - IF610 front display with LCD alphanumeric display
  - Bus Driver Module
  - Common system relays
  - Ribbon cables
- 6 amp main power supply
- One (1) analog circuit module (126 analog addressable points)
- Standard cabinet assembly
20.0" H x 14.0" W x 4.5" D
(50.8 H x 35.56 W x 11.43 D cm)

Ordering Information (Continued)

Model	Description
IF610-126XL	126 point/one SLC IF610 in extra-large housing allowing space for battery storage. (Refer to the IF610-126) 30.0" H x 22.0" W x 5.5" D (76.2 H x 55.88 W x 13.97 D cm)
AAM610-252	Upgrades the IF610-126 to an IF610-252 System. Replaces the single analog circuit card with a two-circuit card to provide a total of 252 analog addressable points.
IF610-252	IF610 analog addressable system consisting of the following:

- IF610 common control that includes:
  - Main CPU
  - IF610 front display with LCD alphanumeric display
  - Bus Driver Module
  - Common system relays
  - Ribbon cables
- 6 amp main power supply
- Two (2) analog circuits module (252 analog addressable points)
- Standard cabinet assembly
30.0" H x 22.0" W x 5.5" D
(76.2 H x 55.88 W x 13.97 D cm)

Model	Description
AAM610-504	Upgrades the IF610-252 or IF610-126 to an IF610-504 system. Replaces the single- and/or two circuit analog card with a four-circuit card to provide a total of 504 analog addressable points.
IF610-504	IF610 analog addressable system consisting of the following:

- IF610 common control that includes:
  - Main CPU
  - IF610 front display with LCD alpha numeric display
  - Bus Driver Module
  - Common system relays
  - Ribbon cables
- 6 amp main power supply
- Four (4) analog circuits module (504 analog addressable points)
- Standard cabinet assembly
20.0" H x 14.0" W x 4.5" D
(50.8 H x 35.56 W x 11.43 D cm)

Model	Description
IF610-504XL	504 point/four SLC IF610 in extra-large housing, allowing space for battery storage (Refer to the above IF610-504) 30.0" H x 22.0" W x 5.5" D (76.2 H x 55.88 W x 13.97 D cm)