Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

Analog Addressable Control Panel

Description

The IdentiFlex 610 (IF610SS) with SmartScan™ is suited for medium-sized installations of commercial, institutional, and industrial life-safety applications.

The IF610SS 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 IF610SS can be networked with up to 256 other 600 Series panels using Gamewell-FCI's SmartLink™ peer-to-peer network.

The IF610SS can monitor and control up to 792 intelligent analog addressable input/output points. Analog circuits are backed up by Gamewell-FCI's Default Alarm Mode for added security. The 1,000-point 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 SmartProgram II programmer.

The IF610SS's cabinet will fit between 16" 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 IF610SS'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.

SmartScan™ Series and SmartStart™ are trademarks of Honeywell International Inc.
Microsoft® Windows® is a registered trademark of Microsoft® Corporation.

g2001ph1.jpg

IF610SS

Features

- Two or four Signaling Line Circuits (SLC), up to 792 points.
- SmartScan™ protocol — up to 99 detectors and 99 devices per loop.
- SmartStart™ self-programming logic.
- Programmable by PC or front panel.
- Password protected.
- Approved for 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

Analog Addressable Signaling Line Circuits

The IF610SS analog interface module provides two or four Signaling Line Circuits (SLC), loop circuits that can monitor and control up to 198 analog/addressable devices on each loop, for a total of 792 analog points in a four-loop system.

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

The IF610SS uses the SmartScan™ 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, 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 IF610SS will operate on most types of field wiring, greatly expanding its use in retrofit applications. Consult the supplemental SLC manual or Gamewell-FCI Technical Support for specific wiring requirements.

IF610SS Power Supply

The IF610SS 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 on-board Notification Appliance Circuits (NACs) Class A or B.

Input (I) / Output (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 IF610SS, and can be programmed to respond to any event. The control devices can also be used as supervised remote signaling circuits.

The IF610SS'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 IF610SS can communicate locally or remotely with a printer to document system activity.

See the RAN/SAN data sheets (CS-2025 and CS-2027) for complete annunciator details.

Applications

The IF610SS Analog Addressable Control Panel is ideal 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 IF610SS provides system engineers with all the tools necessary to design effective system solutions.

Specifications

Common Control:

Standby Current:	0.125A
Alarm Current:	0.171A plus signaling circuit 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–	2.0A combined
Common Relays:	1.0A @ 30 VDC, or 0.5A @ 250 VAC
Signaling Circuits:	24 VDC @ 2.0A per circuit

Analog SLC:	**IF610SS/396 points**	**IF610SS/792 points**
Standby Current:	0.055A	0.075A
Alarm Current:	0.055A	0.075A

Panel Dimensions:

Standard Cabinet:	20.0" H x 14.0" W x 4.5" D (50.8 H x 35.6 W x 11.4 D cm)
XL Cabinet:	30.0" H x 22.0" W x 5.5" D (76.2 H x 55.9 W x 13.97 D cm)

Battery Storage Dimensions:

Standard Cabinet:	6.0" H x 9.0" W x 4.5" D (15.24 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°F – 120°F (0°C – 49°C)

Ordering Information

Part Number	Description

IF610SS-396	IF610SS analog/addressable system consisting of the following:
	• IF610SS common control (main CPU, IF610 front display with the following:
	  - LCD alphanumeric display
	  - Bus driver module
	  - Common system relays
	  - Ribbon cables
	• 6 Amp main power supply
	• Two (2) SmartScan analog circuit modules (396 analog/addressable points)
	• Standard cabinet assembly
	Standard Cabinet:
	20.0" H x 14.0" W x 4.5" D
	(50.8 H x 35.6 W x 11.4 D cm)

Ordering Information (Continued)

Part Number	Description
IF610SS-396XL	396 point/two SLC IF610SS in extra-large housing, allowing space for battery storage (Refer to IF610SS-396R model listed above). Cabinet: 30.0" H x 22.0" W x 5.5" D (76.2 H x 55.88 W x 13.97 D cm)
SSM610-2	Replacement two (2) analog circuit cards for a total of 396 analog/addressable points.

IF610SS-792	IF610SS analog/addressable system with SmartScan™ consisting of the following:
	• IF610SS common control with the following:
	  - 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 (792 analog/addressable points)
	• Standard cabinet assembly
	20.0" H x 14.0" W x 4.5" D
	(50.8 H x 35.6 W x 11.4 D cm)

IF610SS-792XL	792 point/two (2) SLC IF610SS in extra-large housing, allowing space for battery storage. (Refer to IF610SS-792R model listed above). Cabinet: 30.0" H x 22.0" W x 5.5" D (76.2 H x 55.88 W x 13.97 D cm)
SSM610-4	Upgrades the SS-396 to an IF610SS-792 System. Replaces the two-circuit analog card with a four-circuit card to provide a total of 792 analog/addressable points.
71810	IdentiFlex 610 Installation and Operation Manual
CAB610	Standard cabinet and door only (no chassis) for advance installation. Cabinet: 20.0" H x 14.0" W x 4.5" D (50.8 H x 35.6 W x 11.43 D cm)
CAB610-XL	Extra-large cabinet and door only (no chassis) for advance installation. Cabinet: 30.0" H x 22.0" W x 5.5" D (76.2 H x 55.9 W x 14 D cm)