600 Series
IdentiFlex 602

Analog Addressable Control Panel

Description

The Gamewell-FCI, IdentiFlex 602 (IF602) is ideally suited for small- to medium-sized installations of commercial, institutional, and industrial life-safety applications. The IF602 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 IF602 can monitor and control up to 252 intelligent analog addressable input/output points. The interactive operator's display uses LED prompting for ease of programming and user operation. An alphanumeric display and keypad simplify field programming, or download programming from a Windows®-based application.

The IF602's housing was designed to be both aesthetically pleasing and functionally sound. The cabinet is designed to fit between studs for semi-flush mounting. This compact design and the 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 prohibit 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 IF602's operator's display is the source of all user access to the system. The display provides all of the necessary keys and annunciation points to maintain and monitor the system. Alarm, supervisory, and trouble conditions are all 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 x 40-character backlit alphanumeric display. All system functions and operational logic can be programmed directly from the front panel in the field. The IF602 display includes four user-programmable function keys.

IF602

Features

- Listed per ANSI/UL® 864, 9th Edition
- One or two Signaling Line Circuits (SLC), up to 252 points.
- Apollo XP-95 protocol
- Polarity-insensitive SLC circuit wiring
- SmartStart™ self-programming logic
- Downloadable or front-panel programmable
- Password protected
- Approved for Supervisory Service
- Fully digital SLC protocol
- SmartLink™ peer-to-peer networking
- 1000-event history log
- Automatic drift compensation
- Coded signaling capability
- Adjustable sensor sensitivity and temperature settings
- Style 6, 7 (Class A) or Style 4 (Class B) SLC
- Four Style Y (Class B), or two Style Z (Class A) notification appliance circuits (NACs)
- Semi-flush mounting (between 16" studs)
- 160-character display
- Optional GW-UDACT compatible
- Built-in strobe and horn synchronization

An ISO 9000-2000 Company

SIGNALING UL LISTED S521 | FM APPROVED | MEA Approved 415-03-E | 7165-1703:145

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Analog Addressable Signaling Line Circuits

The IF602 Analog Interface Module provides Signaling Line Circuits (SLC), loop circuits that can monitor and control up to 126 analog/addressable devices on each power-limited loop, for a total of 252 analog points in a dual-loop system. Loop wiring is not polarity sensitive.

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

The IF602 uses the advanced XP95 fully digital communications protocol to improve the speed and accuracy of event reporting. The communications protocol provides for 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 during a polling sequence.

The fully digital protocol allows the IF602 to operate on most types of field wiring, greatly expanding its use in retrofit applications. Consult Gamewell-FCI Technical Support for specific wiring requirements.

IF602 Power Supply

The IF602 power supply is a fully regulated 8 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 levels are 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 four on-board NACs (two Class A) with built-in synchronization protocols for System Sensor, Cooper-Wheelock and other brands.

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 IF602, and can be programmed to respond to any event. The control devices can also be used as supervised remote signaling circuits.

The IF602, with Gamewell-FCI's complete line of 600 Series devices, provides a foundation for the system design. The IF602's RS-232 output expands system monitoring and control capabilities.

Remote Display and Control

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 is designed to communicate over the serial communications network.

The IF602 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 IF602 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 without sacrificing flexibility or value.

With its compatible analog sensors and addressable input and control interface devices, and its remote status and control capabilities, the IF602 provides system engineers with all the tools necessary to design effective system solutions for any application.

Architectural/Engineering Specifications

The control panel furnished and installed shall be capable of supporting 252 addressable devices and two analog loops. The panel shall utilize a fully digital Signaling Line Circuit (SLC) protocol. The panel shall contain four on-board 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 IF602.

Specifications

Common Control:

Standby Current:	0.160A
Alarm Current:	0.222 mA plus signaling circuit power, plus 0.002A for master box, or plus 0.022A for reverse-polarity
Input Power:	120 VAC, 4.0A; or 240 VAC, 2.0A

Auxiliary Output:

S+/S–, A+/A–,	2.0 A maximum
Common Relays:	1.0 A @ 30 VDC or 0.5A @ 250 VAC

Notification Appliance Circuits:

Circuits:	Four Class B, two Class A
Output:	3.0A maximum@24 VDC per circuit. Maximum 7.5A total for all circuits.

Analog SLC:	**IF602/126**	**IF602/252**
Standby Current:	0.045A	0.055A
Alarm Current:	0.045A	0.055A

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)

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)
Relative Humidity:	93% non-condensing
Temperature Rating:	32°F – 120°F (0°C – 49°C)

Ordering Information

Model	**Description**
GWIF602-126R	IF602 analog addressable system consisting of the following: • IF602 common control • 8 amp main power supply • One (1) analog circuit module (126 analog addressable points) • Standard cabinet assembly (CAB-602R)
GWIF602-252R	IF602 analog addressable system consisting of the following: • IF602 common control • 8 amp main power supply • Two (2) analog circuits module (252 analog addressable points) • Standard cabinet assembly (CAB-602R)
GW72214	IdentiFlex 602, Installation/Operating Manual
GW31077	CTM-602, city-tie/remote signaling module, for 602 Series panels.
GW31078	ISO-232, RS-232 serial-port isolator module, for 602 Series panels.
GW31079	CLA-602, Class “A” adapter module for SLC, 602 Series panels.
GW70703	Coiled Programming Cable