Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

600 Series IdentiFlex 602VE

Description

The IdentiFlex 602 with Voice Evacuation (IF602VE) is ideally suited for small- to medium-sized installations of commercial, institutional, and industrial life-safety applications. The IF602VE 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 IF602VE 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. The alphanumeric display and keypad simplify field programming, or download programming from a Windows®-based application.

State-of-the-art, single-channel (25 watts) voice evacuation is built into the IF602VE panel. It is expandable to 50 watts. With zone splitting, up to 50 watts of audio power can be divided into as many as eight speaker circuits (zones), and full manual control with status indication is included via a separate keypad.

With the IF602VE, up to five field-programmable messages (up to 60 seconds total message duration) can be recorded with an integral microphone or from an external audio source. The panel provides full supervision in both active alarm and standby conditions; the amplifier outputs, field wiring, message generator, all tone generators, and the microphone are all supervised.

The IF602VE's housing was designed to be both aesthetically pleasing and functionally sound. The cabinet is designed to 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 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.

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Analog Addressable Control Panel with Voice Evacuation



IF602VE

Feature

- One or two Signaling Line Circuits (SLC), up to 252 points.
- Polarity-insensitive SLC circuit wiring.
- SmartStart™ self-programming logic.
- Downloadable or front-panel programmable.
- Password protected.
- Approved for Agent Releasing and Supervisory Service.
- Fully digital SLC protocol.
- SmartLink™ peer-to-peer networkable.
- 1000-event history log.
- Automatic drift compensation.
- Coded signaling capability.
- Adjustable sensor sensitivity and temperature settings.
- Supervisory service.
- Style 6 (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.
- UDACT compatible.
- Built-in strobe and horn synchronization.

An ISO 9000-2000 Company

SIGNALING
UL LISTED S521
FM APPROVED

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Operator's Display

The IF602VE'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 IF602VE display includes four user-programmable function keys.

Analog Addressable Signaling Line Circuits

The IF602VE 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 IF602VE 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 IF602VE to operate on most types of field wiring, greatly expanding its use in retrofit applications. Consult the factory for specific wiring requirements.

IF602VE Power Supply

The IF602VE power supply is a fully regulated 8.0 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 multiple built-in synchronization protocols.

Features (Continued)

- 25 watt, 25 Vrms audio with integral microphone, digital message generator.
- Expandable to 50 watts.
- Single Style Z (Class A) or Style Y (Class B) speaker circuits.
- Up to eight Style Z (Class A) or Style Y (Class B) speaker circuits with zone splitting.
- Control inputs can be independently field programmed.
- Three command input circuits activate on contact closure.
- Full manual control of all audio zones provided by zone page module with keypad, with zone splitting.
- FACP automatically directs the voice message to each or all audio zones, with zone splitting.
- Live voice paging.
- Remote microphone support.

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 IF602VE, and can be programmed to respond to any event. The control devices can also be used as supervised remote signaling circuits.

The IF602VE, with Gamewell-FCI's complete line of 600 Series devices, provides a foundation for system design. The IF602VE'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 IF602VE can communicate locally or remotely with a printer to document system activity.

See the RAN/SAN data sheet (CS-2025) for complete annunicator details.

Applications

The IF602VE 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 compatible analog sensors and addressable input and control interface devices, and its remote status and control capabilities, the IF602VE provides system engineers with all the tools necessary to design effective system solutions for any application.

The IF602VE can also control bulk fire-suppressant materials releasing. The IF602VE 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 252 addressable devices and two analog loops. The panel shall utilize a fully digital Signaling Line Circuit (SLC) protocol. The panel shall contain four onboard Notification Appliance Circuits (NACs) that support multiple synchronization protocols. The panel shall utilize a 160-character Liquid Crystal Display (LCD) and a 1,000-event history log. The panel shall be a Gamewell-FCI IF602VE.

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, 3.0A; or 240 VAC, 1.5A

Auxiliary Output:

S+/S–, A+/A–: 2.0A maximum

Common Relays: 1.0A @ 30 VDC or 0.5A VAC @ 250

Notification Appliance Circuits:

Circuits: Four Class B, two Class A.

Output: 3.0A maximum@24 VDC per circuit. Maximum 8.0A total for all circuits.

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

Panel Dimensions:

VE 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 (without zone splitter):

VE Cabinet: 8.0" H x 22.0" W x 5.5" D (20.32 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

Model	Description
IF602VE-126	IF602 analog addressable system, consisting of the following: • IF602 common control. • 8.0 amp main power supply. • One (1) analog circuit module (126 analog addressable points). • Basic audio subsystem with one 25W amplifier and microphone. Cabinet: 30.0" H x 22.0" W x 5.5" D (72.2 H x 55.88 W x 13.97 D cm)
IF602VE-252	IF602 analog addressable system, consisting of the following: • IF602 common control. • 8.0 amp main power supply. • Two (2) analog circuits module (252 analog/addressable points). • Basic audio subsystem with one 25W amplifier and microphone. Cabinet: 30.0" H x 22.0" W x 5.5" D (76.2 H x 55.88 W x 13.97 D cm)
IF602VE-126Z	IF602 analog addressable system, consisting of the following: • IF602 common control. • 8.0 amp main power supply. • One (1) analog circuit module (126 analog addressable points). • Basic audio subsystem with 8-zone integrated audio circuit splitter. • One 25W amplifier and microphone. Cabinet: 30.0" H x 22.0" W x 5.5" D (76.2 H x 55.88 W x 13.97 D cm)
IF602VE-252Z	• IF602 analog addressable system, consisting of the following: • IF602 common control. • 8.0 amp main power supply. • Two (2) analog circuits module (252 analog addressable points). • Basic audio subsystem with one 25W amplifier and microphone. Cabinet: 30.0" H x 22.0" W x 5.5" D (76.2 H x 55.88 W x 13.97 D cm)
52286	IdentiFlex 602VE and Audio Subsystem Installation/Operating Manual
30177	CTM-602, city-tie/remote signaling module, for 602 Series panels.
31078	ISO-232, RS-232 serial-port isolator module, for 602 Series panels.

Ordering Information (Continued)

Model	Description
31079	CLA-602, Class “A” adapter module for SLC, 602 Series panels.

Audio Subsystem:

ACC-AAM25	Optional 25 watt, 25 V_{RMS} Audio Amplifier Module with single Class A or Class B speaker circuit.
FC-XRM70	Optional 70.7 V_{RMS} Converter Module (one required per amplifier).
FC-RM	Optional Remote Microphone, includes backbox (only one FC-RM per system).
FC-LPS	Optional Local Playback Speaker (not for use with zone-splitting systems).
ACC-EPM	Optional External Page Microphone for zone-splitting systems.
BAT-1270	Battery, 12 volt, 7.0 AH (two required).
BAT-12120	Battery, 12 volt, 12.0 AH (two required).
BAT-12180	Battery, 12 volt, 18.0 AH (two required).