Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/19/17

IPGSM-4G

IP Internet & GSM (4G/3G/2G) Dual Path Communicator

General

The IPGSM-4G is a 4G fire alarm communicator that offers contact ID reporting with any Fire Alarm Control Panel (FACP) that has a built-in dialer. This easy to install, dual path communicator connects directly to the primary and secondary communication ports of a Fire panel's Digital Alarm Communicator Transmitter (DACT). It offers three selectable reporting paths which include: (Cellular only), (IP only), or (IP primary/cellular backup). In the event of an off-normal condition, the fire panel sends contact ID formatted information to the IPGSM-4G communicator panel. The IPGSM-4G then reformats the data into highly encrypted Ethernet packets for transmission to the Alarm-Net receiver via customer-provided Internet/Intranet connection or the GSM network.

Alternative communication methods are critical in the marketplace due to VoIP (Voice over IP), migration from POTS (Plain Old Telephone Service) and growth of digital radio networks. The IPGSM-4G's exclusive dual-path communications solution combines Internet service with GSM for added reliability and an extra level of security. All signals from the IPGSM-4G communicator panel are delivered to Honeywell's AlarmNet Network Control Center, which routes the information to the appropriate central station. The state of the art AlarmNet network control center is fully redundant and monitored 24/7. AlarmNet has the ability to route messages using AlarmNet-i and 800 PLUS services, providing true redundancy and multi-path message delivery.

The IPGSM-4G is designed to operate over the most common GSM networks including 2G,3G and 4G. Its multi-GSM platform technology automatically chooses the best available cellular signal in the area based on signal strength and seamlessly self-adjusts to maintain critical life safety communication.

Features

- Saves the cost of two dedicated phone lines.
- Dual path communications. Can communicate to central station using Internet or cellular technology.
- Requires no change to the existing Fire Alarm Control Panel configuration. The IPGSM-4G connects directly to the primary and secondary telephone ports.
- Multi-GSM platform compatibility for 2G, 3G and 4G.
- Operates over the following communication protocols: HSPA+ (4G) HSPA (HSDPA & HSUPA) (3G) EDGE (2G) GPRS (2G).
- Works over any type of customer provided Ethernet 10/100
- Base network connection (LAN or WAN), DSL modem or cable modem.
- Data transmits over standard contact-ID protocol but is secured with the industry's advanced encryption standard (AES 256 bit).
- Supports both dynamic (DHCP) or Public and Private Static IP addressing.
- Built-In Power Supply module: On board charging circuit design accommodates back-up battery. Includes primary power and battery supervision.
- Diagnostic LEDs: Signal strength and status indicators.
- Reliable connection: IP and GSM connection tested every day.
- QOS: Quality of Service diagnostics via AlarmNet conveys vital communicator information including when message was received, signal strength, and message path used.
- 7720P Hand-held programmer for easy setup.

Operation

When an event occurs, the Fire Alarm Control Panel goes off hook to dial the central station. The IPGSM-4G Dialer Capture Module detects the off-hook condition and provides the fire panel with a dial tone. When the fire panel detects the dial tone, it begins dialing the central station. After the dialing is completed, the Dialer Capture Module returns a handshake to the fire panel. The fire panel then sends the contact ID reports to the Dialer Capture Module, which in turn sends a kiss-off after the report is successfully received from the fire panel. The Dialer Capture Module sends the contact ID reports to the IPGSM communications module. When all the reports are sent, the fire panel goes on-hook. The IPGSM communications module then transmits the messages to the central station either over the GSM network or the Internet (dependent on configuration).

Easy to Program

The IPGSM-4G communicator can be pre-programmed using the 7720P programmer to enter all central-station information. This is saved to the IPGSM-4G communicator panel memory. When the IPGSM-4G communicator is installed at the site and connected to the Internet/Intranet, it registers itself with the AlarmNet receiver.

.For most installations, the only required parameters are:

- Primary City ID (two digits) obtained from your monitoring station.
- Primary Central Station ID (two digits) obtained from your monitoring station.
- Primary Subscriber ID (four digits) obtained from your monitoring station.
- Communication Module's MAC ID, and MAC CRC number located on outside of box, and inside of the module.

All of these parameters are assigned by the monitoring station.

NOTE: *Some assembly is required. See Installation and Setup Guide #800-12454 for full details.*

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Panel Capabilities

The IPGSM-4G is compatible with fire panels that use the Contact ID communications format as described in the SIA DC-05 standard.

AlarmNet

Honeywell's AlarmNet has been the nationwide leader in alarm communications technology since 1986. A reliable alternative for the transmission of alarm signals, our radio network provides extensive coverage in the United States and Canada. AlarmNet Network Control center processes signals from powerful servers in multiple locations equipped with 24/7 infrastructure support. The AlarmNet network consist of redundant hardware servers, hot back-up databases and generators with battery back-up at all locations to ensure continuity of service. Signals from Alarm-Net are transmitted to the central station's receivers using multiple communications paths consisting of the Internet, radio network or toll-free POTS service.

Installation Requirements

UL COMPLIANCE

To meet UL864/NFPA, ensure the following:

- IPGSM-4G must be installed in accordance with NFPA (National Fire Protection Association) standards 70 and 72.
- IPGSM-4G must be mounted in the same room and within 20 feet of the fire panel.
- IPGSM-4G, and all equipment used for the IP connection (such as the router, hub, modem, etc.) shall be listed, must be powered from an un-switched branch circuit, and be provided with appropriate standby power.
- IPGSM-4G must use the 7AH battery (not supplied) to provide 24-hour backup capability.

Electrical Specifications

Transformer:

– Primary 120VAC, 60Hz, 0.5A.

– Secondary: 18VDC, 50VA.

Battery:

– One 12 V 7.0 AH lead-acid battery (not supplied).

– Battery charging current: 1 Amp maximum.

– Battery discharge current: Standby 230mA, Active 950mA.

Cabinet Specifications

Dimensions: 14.875" H x 12.75" W x 3.0" D (37.8 cm H x 32.4 cm W x 7.6 cm D).

Color: Red.

Shipping Specifications

Weight: 5.3 lbs. (6.94 kg).

Dimensions: 15.625" H x 13.79" W x 9.25" D (39.7 cm H x 34.9 cm W x 23.9 cm D)

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 - 49°C/32 - 120°F and at a relative humidity 93% ± 2% RH (non condensing at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 - 27°C/60 - 80°F.

Product Line Information

IPGSM-4G: Internet and Digital Cellular Fire Alarm Communicator Panel. Includes red cabinet with ademco key and lock, wall outlet box, Dialer Capture Module, iGSM Communications Module, antenna & mounting adapter, PowerBoost1 power supply, LED display board, transformer, manual, & required screws, cables, etc.

GSM-ANT3DB: 3db gain external/remote antenna.

7626-50HC: 50 ft. antenna cable, low loss.

7626-25HC: 25 ft. antenna cable, low loss.

WA7626-CA: SNA to N Adapter.

7720P: IPGSM-4G hand held programmer.

HPTCOVER: Plug in transformer box for IPGSM communicator.

BAT-1270: Battery 12 Volts, 7 AH, sealed.

Agency Listings and Approvals

The listings and approvals below apply to the basic IPGSM-4G communicator panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process.

Consult factory for latest listing status.

UL Listed: S789.

CSFM: 7300-1645:0199.

FDNY: COA #6150.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.
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June 2013
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