Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 06/21/13

IPGSM-DP

IP Internet & Digital Cellular Dual Path Fire Alarm Communicator

General

The IPGSM-DP is a compact fire alarm communicator panel with selectable configurable paths: Cellular Only, IP Only, or IP Primary/Cellular Backup. It connects to the primary and secondary communication ports of the Fire Alarm Control Panel's DACT. In the event of an off-normal condition, the panel sends contact ID formatted information to the IPGSM-DP communicator panel. The IPGSM-DP then reformats the data into highly encrypted Ethernet packets for transmission to the AlarmNet receiver via customer-provided internet/intranet connection or GSM (Global System for Mobile) 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-DP delivers secure, reliable and complementary Internet and digital communications via the GSM (Global System for Mobile) network. Our exclusive, Dual-Path Communications solution combines internet service with GSM for added reliability and an extra level of security. The GSM radio technology is unique in that it uses GPRS service (General Packet Radio Service) for data and alarm communications. Through the Internet or GSM radio, the IPGSM-DP offers contact ID reporting with any Fire Alarm Control Panels.

All signals from the IPGSM-DP 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.

Features

- Saves the cost of two dedicated phone lines.
- Dual path communications: Uses Internet or GSM (cellular) as primary.
- Requires no change to the existing Fire Alarm Control Panel configuration. The IPGSM-DP connects directly to the primary and secondary telephone ports.
- 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 indications.
- Reliable connection: IP and GSM tested every day.
- QOS: Quality of Service diagnostics via AlarmNet supply vital information including when message was received, battery voltage, input voltage, signal strength, and message path.
- Web-Based Programming or hand held programmer for setup.

Operation

When an event occurs, the Fire Alarm Control Panel goes off hook to dial the central station. The IPGSM-DP 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. The Dialer Capture Module considers the three second period after dialing as the number dialing has been completed. 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 iGSM communications module. When all the reports are sent, the fire panel goes on-hook. The iGSM communications module then transmits the messages to the central station either over the GSM network or internet (primary).

Easy to Program

There are two ways to configure the IPGSM-DP communicator panel:

1. Handheld programmer 7720P
2. Web-Based Programming - Allows complete interactive programming from AlarmNet Direct.

   https://services.alarmnet.com/AlarmNetDirect

The IPGSM-DP Communicator can be pre-programmed. Use the 7720P programmer or the Web-Based Program to enter all central-station information. This is saved to the IPGSM-DP communicator panel memory. When the IPGSM-DP Communicator is installed at the site and connected to the Internet/Intranet, it registers itself with the AlarmNet receiver. This eliminates the need for a PC at the remote site for programming.

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.

See *IPGSM-DP Installation and Setup Guide* for full details.

NOTE: *Some assembly is required.*

Panel Capabilities

The IPGSM-DP communicator panel 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 AlarmNet 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-DP must be installed in accordance with NFPA (National Fire Protection Association) standards 70 and 72.
- IPGSM-DP must be mounted in the same room and within 20 feet of the fire panel. The wiring must be routed through conduit.
- IPGSM-DP, 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-DP must use the 7AH battery (not supplied) to provide 24-hour backup capability.

Electrical Specifications

- Transformer:
  - Primary: 120 VAC, 60 Hz, 0.50 A.
  - Secondary: 18VDC, 50 VA.
- Current Requirements:
  - PowerBoost1 power supply: 90mA Standby, 90 mA Active
  - iGSM Communications Module: 80mA Standby, 500mA
- Active (peak during transmission)
  - Dialer Capture Module: 40mA Standby, 85mA Active
  - LED Display board: 10mA Standby, 10mA Active
  - TOTAL: 220mA Standby, 685mA Active
- Battery: One 12 V 7.0 AH lead-acic
  (IPGSM-DP cabinet holds one 7.0 A

Cabinet Specifications

Dimensions: 14.875" H x 12.75" W x 3
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-DP: Internet and Digital Cellular Fire Alarm Communicator Panel. Includes red cabinet with key, wall outlet box, Dialer Capture Module, iGSM Communications Module, antenna and mounting adapter, PowerBoost1 power supply, LED display board, transformer, manual, and 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-DP handheld 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-DP 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:** S789
- **CSFM:** 7300-1645:0183

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