IPDACT-2

Description

IP Fire Alarm Communicator

The IPDACT-2 is a compact Internet Protocol Digital Alarm Communicator/Transmitter Module. It is designed to transmit status communication to a Central Station via the Internet. During an alarm, a supervisory, or a trouble event, the IPDACT-2, using the Contact-ID protocol from the fire alarm control panel, converts the standard DACT phone communication to a protocol that can be transmitted and received via the Internet. It can also test the connectivity between the fire alarm control panel and the Central Station. The IPDACT-2 operates in conjunction with the VisorALARM PLUS™ IP receiver located at the Central Station.

The IPDACT-2 is designed to operate with the DACT-equipped panels used in the Gamewell-FCI's, E3 Series® and GF505/GF510 Flex Series Systems. The IP Communicator provides faster and more economic digital alarm transmissions, improving response times and decreasing costs found with traditional analog systems. The IPDACT-2 offers value-added features such as supervised line functionality, which allows a Central Station to detect any off-line alarm panels within seconds. No backup analog phone line is necessary. However; customers can still use a traditional backup phone line from the panel's second phone port if desired.

The panel operates normally during an alarm, a supervisory, or a trouble event and sends the Contact-ID formatted analog information from the telephone ports to the IP Communicator. The IP Communicator then reformats the data into highly encrypted Ethernet UDP packets for transmission to a compatible receiver at the Central Station. This feature allows seamless integration into existing conventional Central Station architectures.

IPDACT-2

Features

- Listed under UL® Standard 864, 9th Edition.
- Operates with the Gamewell-FCI's E3 Series panels equipped with DACT-E3 units and GF505/GF510 Flex Series Systems.
- Saves the cost of two dedicated phone lines. Only the customer's shared IP equipment is required.
- Provides compatibility to newer low-cost, non-analog, digital telephone services such as cable, or fiber optics.
- Increases connection supervision to the Central Station from the once-a-day test signal to once every 90 seconds.
- Requires no change to the existing panel configuration. The IP Communicator connects directly to the primary and secondary analog panel telephone ports.
- Produces fast alarm transmission (less than 10 second transmission time).
- Performs over any type of customer-provided Ethernet 10/100Base network connection (LAN or WAN), DSL modem or cable modem.
- Transmits data over standard Contact-ID protocol but is secured with the industry's highest level of encryption (AES 512 bit).
- Supports both dynamic (DHCP) or Public and Private Static IP addressing.
- Maintains dual-destination IP receiver address for high redundancy configurations: all signals are sent to a secondary address should the primary become unavailable.
- Offers user programmable UDP ports for flexibility and compatibility with firewalls and other network security components.

SIGNALING

UL LISTED S1869

MEA Approved

FDNY: 7165-1703:0125
COA #6077

Programming Options:

To configure the IPDACT-2, the following three (3) options are available:
- Use a HyperTerminal or TeraTerm software program
- Local or Remote Telnet session via an Ethernet connection.
- Windows®-based configuration software (shipped with the IP Communicator).

Note: It is possible to pre-program the IP Communicator at the panel before the installation. To pre-program the IP Communicator, the following is done:
1. An auto-registration password is entered (along with all other Central Station information) and saved in the unit's flash memory.
2. When the IP Communicator is installed at the site and connected to the Internet/Intranet, it auto-registers with the Central Station receiver.
3. This feature eliminates the need to program from a PC at the remote site.
4. The IP Receiver at the monitoring station will automatically configure other parameters during registration.

For most installations, the only parameters required are as follows:
- Selection of either DHCP or Static IP
- Destination primary and secondary receiver IP addresses
- Account identification number (CID)
- Port number
- Installation password

Installation Requirements

To install the IDPDACT-2, the following criteria are required:
- Mounted locally next to the supported fire alarm control panel.
- The Central Station must be equipped with a compatible VisorALARM PLUS™ IP receiver
- At least 136mA of electrical power available from the power supply to use for the IPDACT-2 unit.
- Ethernet network connection (ITE-listed router/gateway).
- It is recommended to use a small UPS, to provide backup power for customer-provided router/switch/modem.
- Dynamic or static IP address (dynamic addressing requires DHCP server present on the local network. Note: DSL and cable modems typically use dynamic addressing as supplied by network providers).
- UDP port for IP communication with the monitoring station (default port: 80 may be changed by the Central Station).
- Destination IP addresses of the IP receivers where the IP Communicator will be sending alarms and other events (If installed on a private Intranet, the gateway address of the public router will be required to allow the IP card to access the Internet and the public router at the Central Station).
- Panel account ID number (CID).
- Installer password (provided by the monitoring station managing the IP receiver).

Specifications

Operating Voltage:	24VDC
Operating Temperature:	Not to exceed the range of 32°C to 120°C (0 to 49°C)
Relativity Humidity:	Not to exceed 93% non-condensing at 90°F (32°C)

Ordering Information

Part Number	Description
IPDACT-2	IP communicator. Includes configuration software, manuals, and prepared 30" telephone cable for connection to panel's DACT telco ports.
IPENC	External mounting enclosure consisting of mounting bracket IPBRKT, and screws. Enclosure must be "close-nipple" to a panel no further than 6 in. (15 cm) via conduit. (Red)
IPSPLT	Y adapter option to allow connection of both panel dialer outputs to one cable input to IPDACT.
Note: The IPSPLT is not required if the second dialer output is used for the phone backup.	
ALMSC119	Serial programming cable and DB9 adapter.
VisorALARM-PLUS	IP Receiver with LCD display and keypad