



AlarmNet 7810PC

IP Receiver Software

Introduction

The 7810PC IP Receiver Software (referred to as the 7810PC) is a highly upgradeable and feature-rich IP alarm receiver solution that can take the place of traditional hardware-based 7810iR-ENT receivers.

Alarm receivers (such as the 7810PC or the 7810iR-ENT) monitor alarms, check-ins and status messages from fire and security systems.

How It Works

The protected premises sends alarms and messages either to a central station's private LAN or to AlarmNet (which in turn stores and sends them to the central station via Internet). The central station uses a 7810PC to receive these alarms and messages. In addition to serving as a buffer, it allows the alarms and messages to be viewed, and to be passed on to automation equipment for further processing. The 7810PC can be configured in three receiver automation modes (Manual, Serial and TCP/IP), offering various degrees of intervention. For any mode the following applies:

- Incoming messages are displayed in alarm history (ADEMCO high-speed or Contact ID format).
- Both the Alarm window and the Alarm History window are first-in first-out (FIFO) buffers and are limited to 1000 entries. In private mode, when 1000 messages have been received in either window, the next message will push the oldest alarm off the list. All messages are stored in a Microsoft SQL database (for AlarmNet, stored in SQL at AlarmNet; for Private LAN, stored in SQL locally).



UL Listings

Customers can use any off-the-shelf computer as long as it meets processor/memory/etc. requirements.

- UL 1076, Proprietary Burglar Alarm Units and Systems
- UL 864, Control Units and Accessories for Fire Alarm Systems
- UL 1610, Central-Station Burglar-Alarm Units

FEATURES

7810 PC FEATURE	APPLICATION MODES	
	AlarmNet Only	Private
MAC address assigned by AlarmNet upon installation	✓	
Up to 1000 messages can be buffered	✓	✓
Diagnostics include network trace to AlarmNet Utility, network diagnostic utility, database indicator	✓	
Alarms stored in AlarmNet Database	✓	
Local SQL database required		✓
Primary and Secondary 7810PC applications share a common synchronized SQL database		✓
Automation options include Manual mode, Serial mode and TCP/IP Automation	✓	✓
Intuitive PC application style GUI that uses a keyboard and mouse to interface with tabbed windows, fields and option drop down boxes.	✓	✓

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SPECIFICATIONS

Server Hardware (min requirements)

- Processor – Intel Core 2 Duo, or compatible processor, 2.16 GHz dock speed
- RAM – 4 GB
- Hard Drive Capacity – 320 GB (For HD data reliability, use a RAID 1 configuration. This configuration requires two drives).
- File System – NTFS
- Monitor – VGA 1024 x 768 resolution (minimum)

Operating System

- Microsoft Windows 2000® Server (with SP5 or later), Microsoft Windows Server 2003 (with SP2 or later), Microsoft Windows Server 2008 (with SP2 or later), or Microsoft Windows Server 2012.

Note: Since later service packs often provide increased security, we recommend installing the latest.

Database Requirements for Private Mode

- Microsoft SQL Server 2005, 2008 (with SP3 or later) or 2012. If SQL backup database is desired, refer to the SQL Server documentation to setup the backup database on another server. Internet Explorer 6.0 (with SP 1 or later) browser is optional.

- Keyboard and Mouse – required interface
- Network Adapters – compatible with the operating system. 10BaseT connection using CAT 5 or CAT 6 wiring

**For a Primary only 7810PC installation, one server PC is required. If a Secondary 7810PC installation is desired, then another server PC is required. In private mode, each server PC must have a static IP address and the Processor, RAM and disk space must meet or exceed the requirements of the operating system.*

Environment

- Equipment must be installed in a temperature controlled environment maintained between 13-35 degrees Celsius (55-95 degrees Fahrenheit) by the HVAC system
- Twenty-four hours of standby power must be provided for the HVAC system. The standby power for the HVAC system may be supplied by an engine driven generator alone. (A standby battery is not required).
- Primary Power for all equipment must comply with the Standard for Transient Voltage Surge Suppressors, UL 1449, and be marked for a minimum rating of 330V
- Data lines for all equipment must comply with Standard for Protectors for Data Communications and Fire Alarm Circuits, UL 497B, and be marked for a minimum rating of 50V

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COMPARISON TO 7810IR-ENT

FUNCTION	7810IR-ENT	7810PC
Alarm Logging	Alarms are sent to a printer.	Alarms are stored in a robust Microsoft SQL database. This database can be backed up.
Message Storage	Messages are stored by an AlarmNet database and accessible for 30 days by the central station.	Will not have a database if AlarmNet is used. Messages will be stored within cloud services.
Database Synchronization	Only in a private LAN configuration, the Primary and Secondary receiver can synchronize data. AlarmNet data is not synced to 7810iR-ENT devices.	Primary and Secondary 7810PC applications share a common SQL database so they are always in sync.
Subscribers	up to 10,000	up to 10,000
Search Capability	No	Yes. The SQL database information can be easily searched and sorted.
Automation Options	Manual Mode, LRR Line Card Mode and 685 Automation Mode.	Manual Mode, Serial Mode and TCP/IP Automation.
Graphical Interface	Touchscreen. Information is presented in a very terse manner. Not intuitive.	Intuitive PC application style GUI that uses a keyboard and mouse to interface with tabbed windows, fields and option drop-down boxes. Descriptive choices are more detailed and include tool tips.
Multilingual Interface	No	Capable
Message buffering	up to 49	up to 1000
Printing	Uses a dedicated serial printer only.	Uses any printer supported by the operating system. Prints logs and traces.
MAC Address	Embedded in hardware.	Assigned by AlarmNet upon installation.
Diagnostics	Basic tests to check the hardware's display, audio, RTC (real time clock), screen and encryption algorithm.	<ul style="list-style-type: none"> • Network trace to AlarmNet utility • Network diagnostic utility • Database OK indicator

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ORDERING

PART NO.	ACCOUNT CAPACITY
ALARMNET CENTRAL	
7810PC-AM	Up to 10,000
ENTERPRISE	
7810PC-1000	1,000
7810PC-5000	5,000
7810PC-10000	10,000

For more information

security.honeywellhome.com



Resideo Technologies, Inc.

2 Corporate Center Drive, Suite 100

P.O. Box 9040

Melville, NY 11747

1-800-645-7492

resideo.com

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