

## RunPager Software Products



### ■ RunPager HS Specifications [Best Viewed With $\geq$ 16 Bit, 64K Color]

Home, office, apartment, or dormitory room security system alerts the user via numerical pager, sounds alarms thru your audio board while the event is in-progress.

A minimum of wiring runs are needed when you use a motion detector to supervise large areas of coverage (e.g. 50x60 square feet). In addition you may opt to employ x-10 devices (-see next to last page).

Twelve zones of protection (four zones per comm port) with an unlimited number of switch devices on each zone. Simple two wire hookup of sensor devices to optional cable interface connector.

Restarts on power down/up sequence and runs in background or foreground with the monitor turned on or off.

Latest version upgrades cost only \$1.00 to have a disc mailed to licensed users of the system.

RunPager HS may be used to monitor industrial equipment, but we have another application, RunPager XS, which may be better suited for this. Please see the following URL for RunPager products:  
<http://www.bsoftware.com/cgi-bin/fetchsan.cgi?AuthorID=528,LocationID=1>

### ■ RunPager HS System Overview

RunPager HS is an MS Windows based home or office security system that senses switch closure actions of motion detectors, door and window magnetic contact switches, x-10 devices, etc.

How the system works... When a switch is tripped the system notifies you of the event by placing a call to your pager service and supplying a code representative of what is occurring in the protected area. In addition, alarms may be sounded through your audio board and an external application may be launched as well. The system can also inform you of alarm drops from an existing conventional security system saving you the cost of monthly monitoring fees.

### ■ System Requirements

An IBM compatible PC running Windows 3.1, a Hayes compatible modem, one or more open serial port(s). A sound board and speakers are

optional. A numerical pager (not supplied) is required for event notification. Download the Visual Basic Runtime VBRUN300.DLL and place in your Windows\System directory.

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### **■ Software License Requirements**

- Please see and read the AGREEMENT carefully (Last Page).

### **■ Getting Started**

If you have a prior version of the software, you must first delete the RUNPGRHS directory and the RunPager Program Group from the Program Manager. Then, run the SETUP.EXE executable from the File Manager or Program Manager Run Command. After the installation, turn on your modem if it is an external type, then double-click on the RunPager icon and configure the system.

### **■ Evaluation Testing**

After you have set up your configuration, pager phone number, alarm file and external program information, you can run a static test by clicking the test button on the main console. From there you can test each item. Note, pager notification takes about thirty seconds to complete communication to your pager service and thirty to sixty seconds for the satellite signal trip to your pager.

To test a serial port trip, first configure the port and arm the system. Then, using a length of wire, short the serial port signals DTR and DSR to initiate an alarm trip on zone 01. On the 09 pin serial port connector these are pins 04 and 06. On the 25 pin connector they are pins 20 and 06. Be careful to discharge any static electricity that may have built up on your body before touching any of the pins. You can discharge static electricity by touching the metal portion of your computer case.

The evaluation version of the software will process alarm trips for one hour of operation, then display a message, disarm and initiate a system reset. This allows you to fully test the functionality of the system before making a purchasing decision. The licensed version of the software has, of course, no such time limitation.

### **■ RunPager HS Operation**

**-see console form**

There are three modes of enabled operation. Home, Night, and Away, arm, or enable, the system for operation. Using three modes of operation allows you to monitor three different sets of circumstances. For instance, you may want some alarms enabled when you are at home and awake and other sets of alarms when you are sleeping or away. You probably would not want to alert your pager if you were at home. In addition, you might want to monitor different alarms when you are asleep than awake or monitor a different perimeter at night than during the day.

- Home mode activates the system for a protected area that is occupied.
- Night mode activates the system and designates night zones for a protected area that is occupied.
- Away mode activates the system for a protected area that is not occupied.

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The other mode of operation is Disarm. The disarm mode disables, or deactivates, the system. Additionally, the system is configured in this mode.

### **■ Port Configuration**

**-see configure form**

Configuration, configures the comm ports and all of the system options. The configuration is saved in the file RUNPGRHS.CFG which is both created and updated automatically. To clear the configuration just delete the file and restart the system.

There are four serial comm ports available for configuration as either security zones, modem/pager port, or not used (Com1, Com2, Com3, and Com4).

When RunPager starts the first time it auto-selects the zone and modem ports by testing to see if there is a serial port or a modem device. If your modem is an external type, you should turn it on before you run the system the first time so that the auto-select feature will configure it. You may of course change the configuration as you wish. Select either Zones or Modem as the port type then click on the Port button, (1 to 4) to configure that port.

### **■ Zone Configuration**

**-see zone events form**

There are four zones for each comm port selected as security zones, twelve zones in all if one port is used for the modem.

- Each zone may be assigned as security trips, entrance trips, arming switch, or disarming switch. The entrance trip distinction allows you time to leave before the system activates and enter and deactivate the system before an alarm is set. A zone assigned as arm or disarm uses an external switch closure to either activate or deactivate the system.

- For each zone assigned as trips or entrance trips, the zone may be classified as either intrusion, fire, assist, or alert. This is used as an aid in identification in the pager event notification code.

- In addition, a name field and a message identification code is supplied for identification and reference.

Check boxes for alarms, pager, and external program defines the action to be taken if a trip occurs in home, night or away modes of operation. This allows you to customize your mode-zone action sets.

Each trip zone may be wired to an unlimited number of switches.

## ■ Modem Configuration

-see modem form

Set up your modem's baud rate, parity, and start/stop bit settings.

You should not have to change the modem initialization string but if you do, you can restore the settings to it's default by clicking on the button on the right corner of the label. The initialization string must be set for echo off, non-verbose response.

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### ■ Setup Common Options

-see setup form

The Setup button selects the common options form for configuration.

When the pager is notified of an event, a formatted message is sent to the pager service. For example @xpztn# sends XXX-PZT-NNNN where:

- @ Tells the modem to wait for five seconds of silence.
- Prefix (XXX) is a three digit code used to distinguish the message from an ordinary phone message, default is 555.
- Port, Zone and Trip Type (PZT) identifies which port, zone and trip type combination caused the alarm. Port values are 1 to 4 for Com1 thru Com4. Zone values are 1 to 4. Trip type values are: 1=intrusion, 2=fire, 3=assistance, and 4=event alert.
- PINumber (NNNN) is a four digit personal identification number which may be used to identify a particular location if you are running the software from more than one location, home and office for example, and need to identify which is giving the signal to the pager.
- # Signals an end of message to the pager service.

An external file path must be assigned if you want to launch another application as the result of an alarm trip. Double-click to assign the file which may be .exe, .com, or .bat. Please note, a Windows application will run asynchronously when launched, but a DOS application will suspend this and all Windows execution.

An audio alarm file path of a .wav or .mid file must be assigned in order to play multimedia audio such as an alarm as the result of a trip switch action. Double-click to select the file.

The pager notification control format defines the data sent to your pager as follows:

- "@" tells the modem to wait for the pager service to answer and go silent for five seconds before it sends sends the remaining data. This is a required field but in some cases may be replaced by a series of "," commas to create a delay that allows the pager service time to answer and send it's greeting message.

- "x" tells the system to send the prefix information, eg. "555"
- "p" tells the system to send the port number ( 1 - 4 )
- "z" tells the system to send the zone number ( 1 - 4 )
- "t" tells the system to send the trip type ( 1 - 4 )
- "#" tells the pager service that communication has ended.

or:

- "c" tells the system to send the zone associated message identification code ( 0 - 999 ). This may be employed by those users who have a pager service that allows alphanumeric messages be sent by message code. Valid values for phone numbers may be entered here as well (-see below).

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Enter your pager's phone number(s) for event notification by pager.

- If you want the system to call a telephone rather than a pager or in conjunction with a pager you can change the call type by clicking on the button in the right corner of the label. You might want to use this feature if the system is installed in an office and you want it to awaken you by ringing your home phone after sending the notification message to your pager. In this case set your pager number in pager # 1 and your home phone number in phone # 2. The system will then issue 10 rings to your home telephone after your pager is notified.

- Valid values for phone number(s) are 20 characters as follows: 0 - 9, #, \*, comma(,), W, hyphen(-) and hookflash(!) as per the Hayes dialing command set.

- If you are dialing out through a PBX, and need to dial 9 to get an outside line, be sure to precede your phone number with "9," so that the modem will wait for two seconds before dialing.

#### **■ Timing Options**

**-see timing form**

The user timing group incorporates timing you may use to accomodate your personal requirements, exit/entrance delays and system reset timer.

- Egress delay, in away mode, the delay time in seconds to exit the protected area before the system activates.

- Ingress delay, in away mode, this is the time in seconds to enter and disarm the system before the alarms activate, audio, pager notification, and external program execution. This delay applies only to those trips designated as entrance trips. Remember, if you have turned off your monitor the system may be disarmed with the [ESC] escape key or escape key and personal identification number if it is not zero.

- Reset time in minutes after an alarm is set to reset the system and turn off the alarms. The default is 15 minutes. It is important to have an alarm reset. That is, you would not want to have an alarm run on and on if you were unable to respond to it. If you have heard a car

alarm go on and on you can see the importance of this.

The call abort timing group incorporates timeouts the RunPager application uses for the pager service call.

- Call abort timer accounts for the total time allowed to place the call to the pager company, find five seconds of silence after the pager service sends the greeting message and send the notification string. You should not have to change this, but if your pager service greeting message is longer than about five seconds you may have to increase this delay or shorten your message. If you decrease this field you may cut-off the call early. Recommended values are 15 - 20 seconds.

- Failsafe call abort timeout is the time allowed for the software to wait for a non-responsive modem. This timeout prevents software hangups.

- Busy signal detection cutoff is the time allowed for a true busy signal report. This is needed because the pager company puts a busy signal on the line at the end of a call and the software needs a mechanism to distinguish a true busy signal from the end-of-call busy signal.

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- If the system is responding to an alarm trip from a conventional security system, the security delay is the time in seconds to allow the conventional security system to access the telephone line and place it's call to a monitoring service before RunPager picks up the line. This is to prevent telephone line contention. Please note, you may wish to employ the RunPager software with an existing security system and elect not to use a monitoring service. In which case set the security delay to 0. You may want to include in your order a 12 Volt DPDT relay to interface an existing security system.

- If checked, startup for pagers 1 and 2, will notify you when the system becomes active in away mode. Just to let you know that it activated properly the system sends the test code (555-000-0000).

#### **■ Color Preferences**

**-see colors form**

Color bars change the push button color, the status message color and the descriptive panel color on the various forms. The program was created with the Mahogany Program Manager Color scheme in mind, but this allows some change to suit your taste.

#### **■ Keyboard Inputs**

Please note that the [ESC] escape key initiates the disarm mode.

- In away mode the [ESC] escape sequence may require entering your personal identification number to disarm the system with the monitor turned off.

- In disarm mode, the [ESC] key press causes session termination.

In home or night modes pressing the [PAUSE] key causes the system to cease responding to trip interrupts until it is pressed a second time resuming operation.

### ■ Wiring Information

Specific wiring information and illustrations are supplied with the optional interface cable, but you can see a diagram of the Allen-Tel connector and the switch loops if you click on the signals button on the zone configuration form. Note: The user can obtain the interface cable and connector ( recommended ) when ordering the system or make up the cable using the proprietary pinout wiring information supplied with the licensed version.

Essentially the hookup is the formation of simple two wire loops, either open or closed. A switch action either closes an open loop, or opens a closed loop, or a combination of the two. Combination wiring may be used if you have switches that support it and you are concerned about someone trying to cut or wire around the sensor. Bear in mind however, that combination wiring requires two zones of operation since it supports both open and closed loops and you can not mix switch types. (-see file "wiring.bmp" in download zip packet)

- On any one zone all of the switches must be wired for either open action or closed action.

- You may place an unlimited number of switches on each zone.

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### ■ Pager Notification Problems

You can listen to the correspondence of the modem with your pager service when you run the static test. This exchange should follow:

- RunPager dials the pager service
- Wait for greeting message to be returned
- Wait for five seconds of silence "@"
- Send the second part of the dial string
- Pager service hangs up, then the system hangs up.

The test should send the notification test string PPP-000-NNNN to your pager.

- If you don't get the second dialing string sent out, try increasing the call abort timeout, by a value of three to five seconds. This timeout can be found on the timing options form.

- If you have problems with the modem you can clear out the modem initialization string. This will cause the system to default to a simpler setup.

### ■ Informative Notes

Restart on power failure ... Set your system to start Windows at boot time without stopping for a password. Drag the RunPager icon to

the Windows StartUp group then start RunPager from within the StartUp group of the Program Manager. In the event of a loss and regain of power to the PC, RunPager will restart automatically.

You can get a print list of your port configuration by opening and editing the "RUNPGRHS.DTA" event file. The configured setup is written out here every time you start RunPager.

- Just look for the keyword "Configure" then strip out every other line. Edit and print this then carry it with you so that you can relate this information when the pager is alerted.

The "RUNPGRHS.DTA" event file details the occurrence of events during the session. Some of the codes are as follows:

- "TP=Test Port", occurs when the port is enabled.
  - "IM=Initialize Modem", occurs when the modem string is sent to the modem during initialization.
- "SP=Signal Pager" occurs when the pager notification message is sent.
- "HU=Hang Up" occurs when the modem hangs up the telephone line.

The "RUNPGRHS.HIT" event file details the occurrence of events when alarms are triggered during the session.

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### **■ Precedence of System Operation**

The precedence of system operation is as follows:

- Select "Home", "Night" or "Away Mode".
- System protection shows pending.
- Enable the zone and communication ports.
- Show the monitor turn off message.
- If away mode and the zone switch is configured for arm, wait for the arm switch signal.
- If away mode, execute the egress delay countdown.
- If away mode and the pager notification startup is configured, send the test message to the pager.
- System protection shows active, the time is displayed.
- Remain in active loop until a disarm is initiated.
  - If the system encounters a trip ...
    - Display an alarm message.
    - If an entrance trip, execute the away mode ingress delay.
    - Start the reset countdown for alarm reset.
    - If selected, startup audio alarms.

- If selected, execute the security system delay.
- If selected, send the pager notification message to the pager and/or phone.
- If selected, launch the external application.
- Reset the system after reset countdown is reached.
- Continue to loop until disarmed.

■ **Removing Installed Components**

Use Program Manager Delete to remove the "RunPager" program group and icons.

To remove installed components use your File Manager to delete:  
- From Windows\System Directory:

rpmscomm.vbx	Renamed MSComm VBX
rpthread.vbx	Renamed Threed VBX
rpmci.vbx	Renamed Mutimedia VBX

These were renamed to prevent version conflict if you have a different version of Visual Basic loaded.

- If you don't have Visual Basic Version 3.00 delete:

vbrun300.dll	Visual Basic Run Time DLL
setupkit.dll	

- Delete the RUNPGRHS Directory along with all of it's files.

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■ **Using X-10 Devices**

The following x-10 devices may be employed:

- Sending Unit (located at the sensor) X-10 Powerflash Unit  
The Powerflash Unit senses a dry contact closure and sends the x-10 signal.

Home Automation Systems Part No: HAS4060

- Receiving Unit (located at the computer) X-10 Universal Module  
The Universal Module receives the x-10 signal and closes a dry contact switch.

Home Automation Systems Part No: HAS2010

- Home Automation Systems



ADDRESS AND/OR INDICATE COUNTRY IF NOT U.S.

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INTERNET E-MAIL ADDRESS

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SOFTWARE DOWNLOAD LIBRARY

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RUNPAGER HS USE [ ] HOME [ ] BUSINESS [ ] EQUIPMENT MONITORING

PC MODEL [ ] 286 [ ] 386 [ ] 486 [ ] 586 [ ] ETC

INTERFACE CABLE REQUIRED [ ] 9 PIN [ ] MALE, [ ] FEMALE [ ] 25PIN [ ] MALE, [ ] FEMALE

ITEM		QTY	PRICE
LICENSED VERSION OF RUNPAGER HS WITH WIRING INFO (ORDERED ALONE REQUIRES NO SHIPPING CHARGE)	@ \$15.00	_____	_____ . _____
INTERFACE CABLE AND CONNECTOR	@ \$10.00	_____	_____ . _____
LICENSED VERSION OF RUNPAGER HS COMPLETE WITH INTERFACE CABLE & WIRING INFO	@ \$25.00	_____	_____ . _____
WINDOW/DOOR MAGNETIC SWITCH	@ \$ 5.00	_____	_____ . _____
DSC BRAVO 3 MOTION DETECTOR REQUIRES 12 VOLT POWER SUPPLY (-SEE VENDOR LIST ABOVE)	@ \$35.00	_____	_____ . _____
SHIPPING U. S. POSTAL PRIORITY MAIL	@ \$ 6.00	_____	_____ . _____
PLEASE MAKE CHECKS PAYABLE TO <u>BOB JOHNSON</u>		TOTAL	_____ . _____

SIGNED, I AGREE TO BE BOUND BY THE TERMS OF THE AGREEMENT DATE \_\_\_\_\_

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