

SPMS

SmartPage Messaging System



INSTALLATION AND USER MANUAL

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2. Overview

Introduction

The **SmartPage** messaging unit is a compact, stand alone direct **paging** and **messaging** solution. Once programmed, the SmartPage unit can process and page alarms from any two of **SmartLink's Telephone based, Wireless or Hardwired** systems. The unit also incorporates a printer port for direct connection to most serial printers or any computer running Hyper Terminal for the purpose of **event logging**. Other powerful features of the SmartPage system include **Grouping** of pagers, setting up of **Escalations**, and **Repeat paging** with numerous CAP codes.

Equipment List

A SmartPage Messaging System consists of the following equipment:

- **SmartPage Unit** (*Note: POCSAG transmitter not included*)
- **Windows Programming Software**
- **Programming Cable (Null Modem DB9 to DB9 Female)**
- **12V DC 2Amp Regulated Plug Pack**
- **Installation and User Manual**

Programming Software

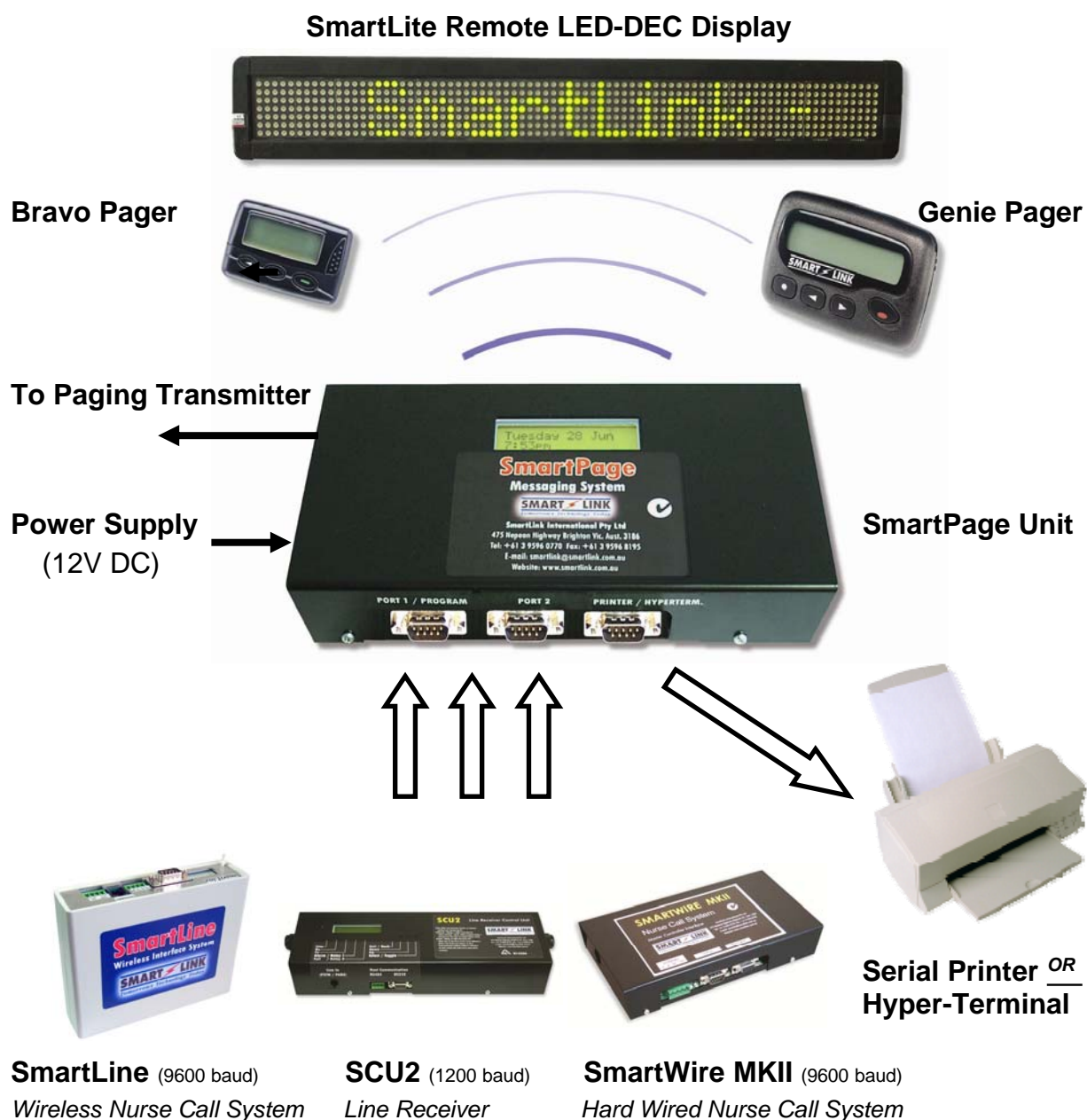
The SmartPage unit needs to be configured with the Software that is provided. The software is an integral part of the SmartPage System and enables the user to change settings and Maintain the list of clients that are in the SmartPage unit. The software will need to be installed on a **WIN2000 or WIN XP** system. Once installed it will need to be registered with SmartLink to become operational. The registration process will involve contacting SmartLink and obtaining a **Registration Number** which will activate the Software.

Power Supply

The SmartPage Messaging system comes with a 12Volt DC 2Amp Regulated plug pack. The quiescent current drawn by the SmartPage unit is approximately 100mA.

3. Hardware Setup

Basic System Configuration

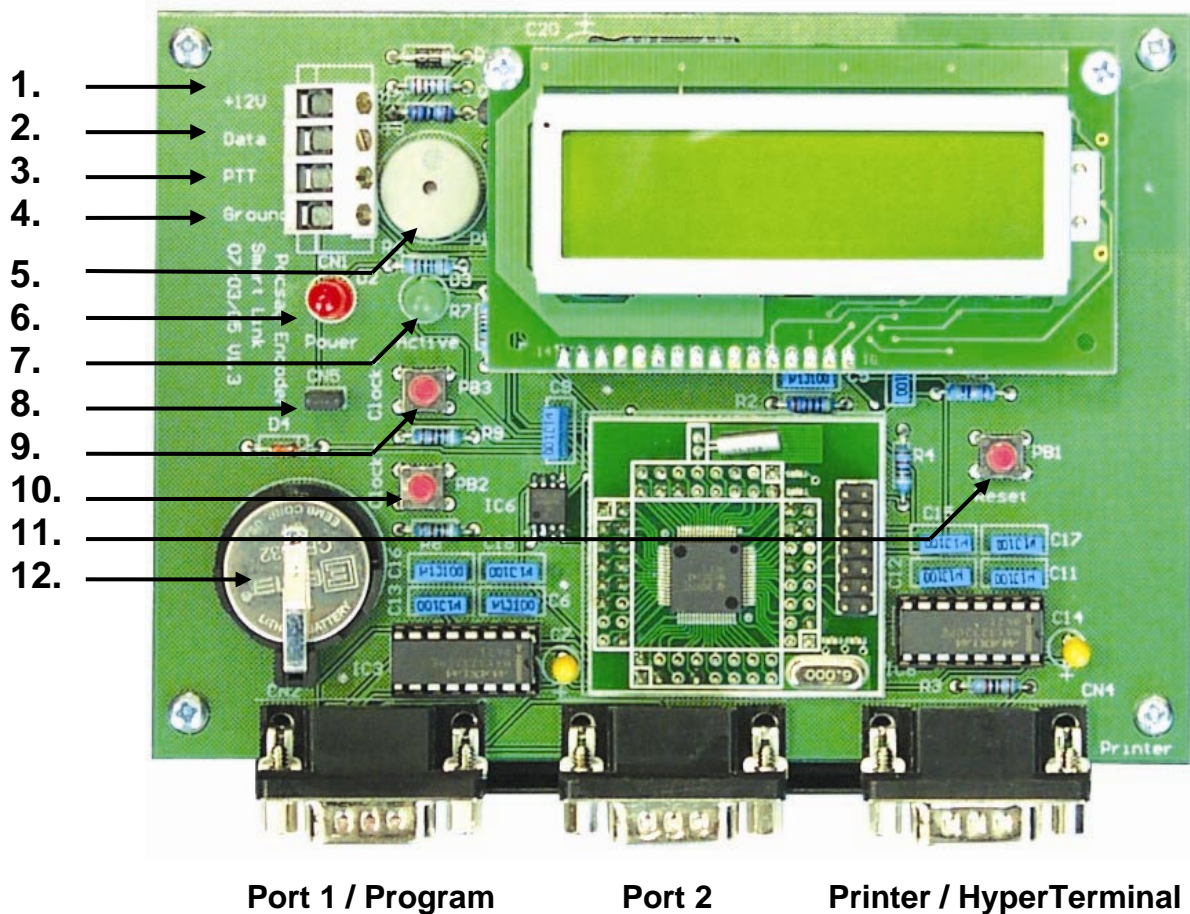


Setting up the Ports

Refer to **Options Setup** menu under Software Settings.

PCB Layout

Top View of SmartPage Printed Circuit Board



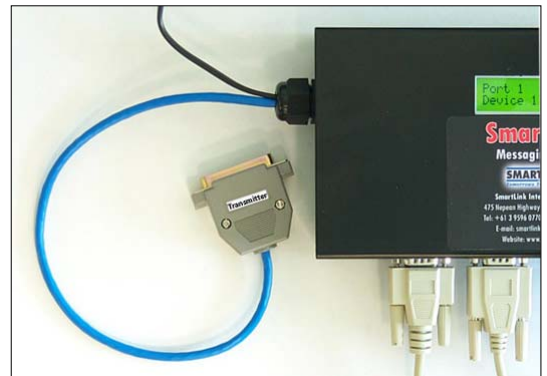
1. **+12V DC** supply (quiescent current drawn is approx 100mA)
2. **Data** connector for POCSAG transmitter
3. **PTT** connector for POCSAG transmitter
4. **Ground** connection for power supply and POCSAG transmitter
5. **Buzzer**
6. **Power ON LED**
7. **Activity LED**
8. **Buzzer Enable** jumper (speaker is ON when jumper present)
9. **Clock Adjustment +** Button
10. **Clock Adjustment -** Button
11. **Power Reset** Button
12. **3V Lithium Battery (CR2032)** to backup Date and Time

WARNING: Remove Battery TAB to Enable Clock Backup.

Paging Transmitter Wiring Diagram

SmartPage provides the ability to send messages to **local area pagers** using a **POCSAG** transmitter. A transmitter provided by SmartLink may be plugged directly to the DB25 Male connector attached to the SmartPage unit.

Note: If using any other brand of POCSAG transmitter, the connection can be made directly to the SmartPage via the terminal block found on the PCB (see PCB layout).



Transmitter Pin Outs

SmartPage Unit Transmitter Pins	DB25 Male Connector	MAXON DB9	Intelpage 5W RJ45	PT400 DB15	PT500 DB9
Data (POCSAG)	4 (Orange)	9	6	13	5
PTT (Push to Talk)	20 (Blue)	3	4	5	3
Ground	7 (White/Blue)	4	5	1	6

Warning

ng: As the **transmitter** is a source of considerable **RF energy**, you should ensure that it is not located within **3 meters** of any electronics equipment to prevent interference.

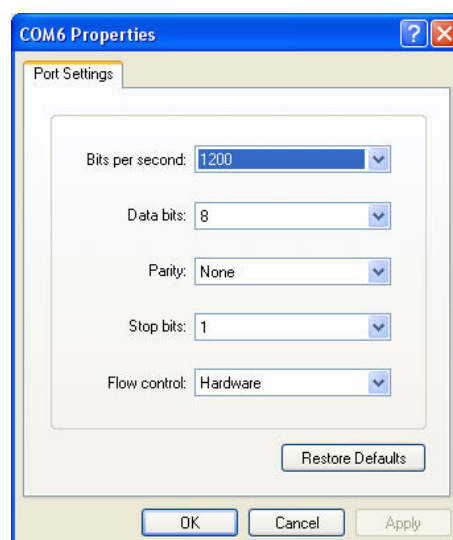
Setting up the Transmitter in SmartPage Software

Refer to **Options Setup** menu under **SmartPage Software Setup**.

Setting up the Hyper Terminal for Data Logging

COM Port Properties Screen as shown below.

Baud rate: 1200
Data bits: 8
Parity: None
Stop bits: 1
Flow Control: Hardware



4. SmartPage Software Installation

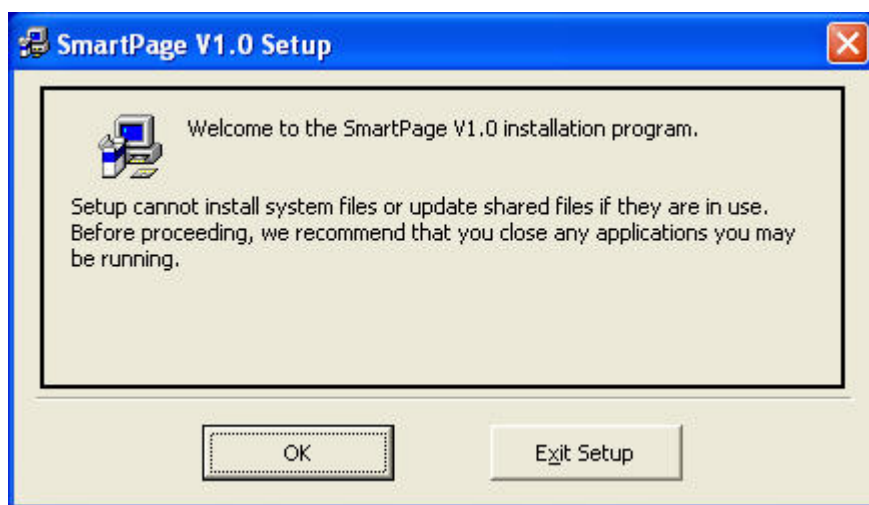
SmartPage Software Installation

Note: The SmartPage Software will only operate on a WIN2000 or WIN XP system.

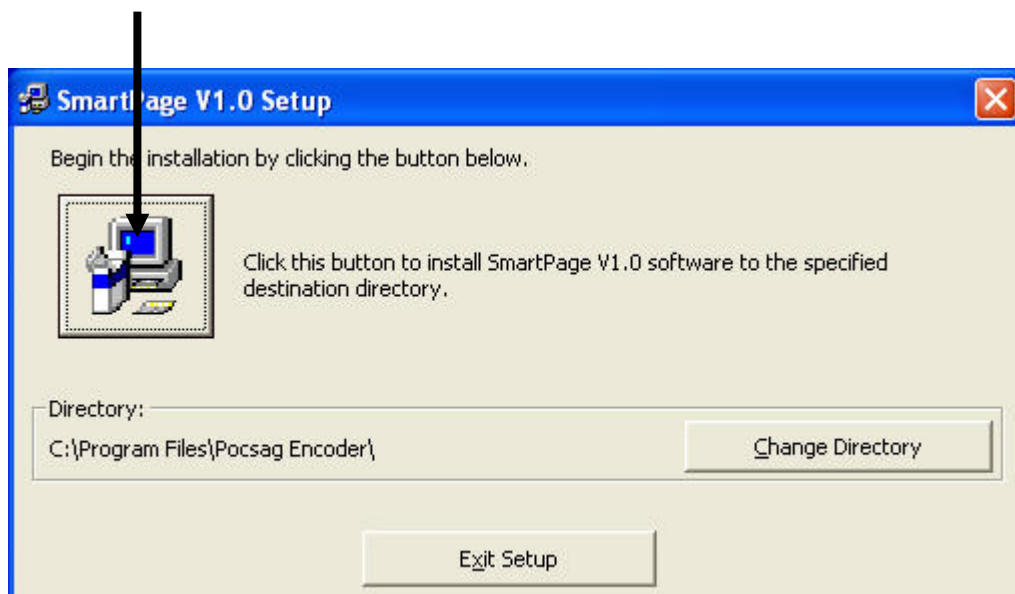
Insert the SmartPage Software Installation CD in the CD-ROM drive. Make sure that no other programs are running.

The auto-run screen will startup as shown below. Click the **OK** Button to continue.

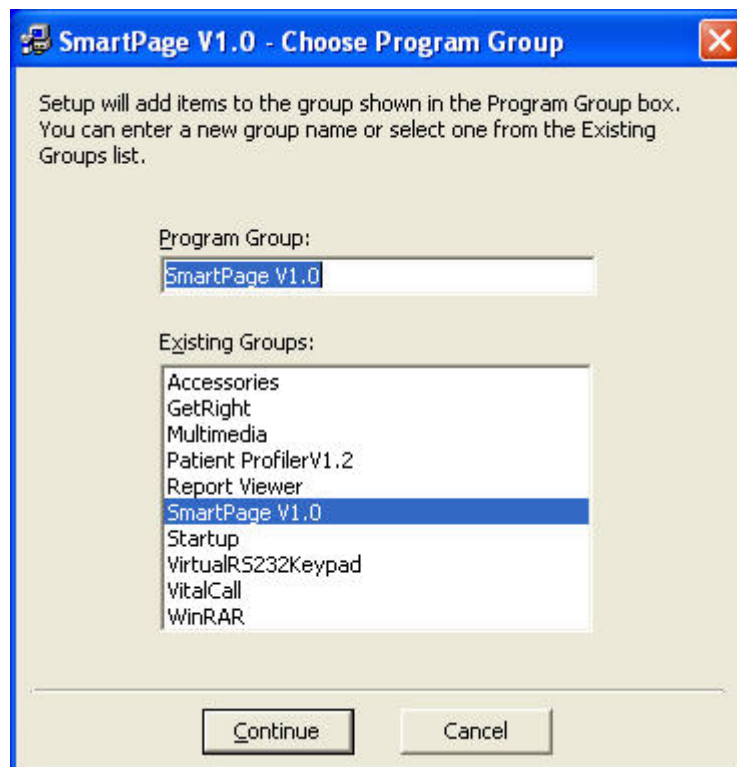
NOTE: If the auto-run screen does not start up, browse the contents of the CD-ROM drive containing the SmartPage Installation CD using Windows Explorer or My Computer and double click setup.exe



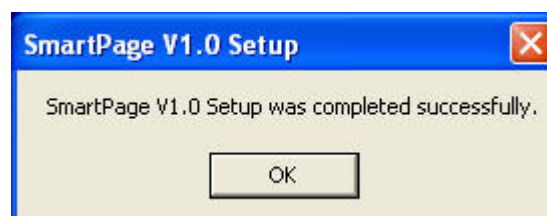
Click on the **PC Icon Button** as shown below to continue.



Click the **Continue** Button as shown below to continue.



Click the **OK** Button as shown below to complete the SmartPage Software installation.



NOTE: Restart the PC to let the changes take effect.

5. Registering SmartPage Software

Registering SmartPage Software

NOTE: Once the SmartPage Software is installed, you must contact your dealer for the **Registration Number**. None of the features of the software are operational until the Registration number has been entered.

To begin the registration process, click on the SmartPage **Registration** Button as shown below.



SmartPage **Registration Number** Screen will startup as shown below.

Contact your dealer for the Registration Number and provide them with your **12 digit** Serial Number. They will provide you with a **Registration number**.

After entering the Registration number provided by your dealer Click **Register** Button.



Now you are in the SmartPage Software Main Menu Screen as shown below. You will also notice that the **Registration** Button has now changed to **About** Button.



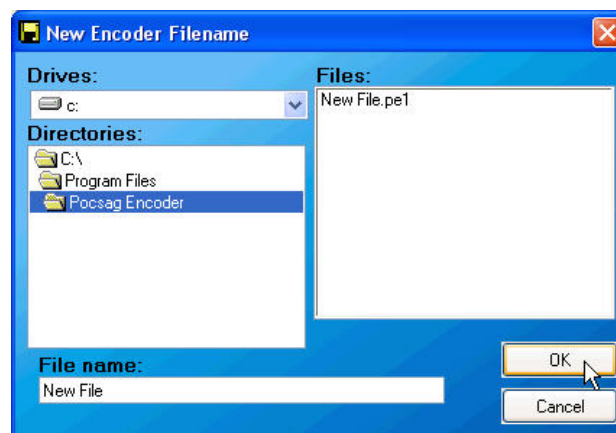
6. SmartPage Software Setup

Starting a New File (SmartPage Database)

SmartPage Settings main **File** Menu Screen is displayed as shown below.

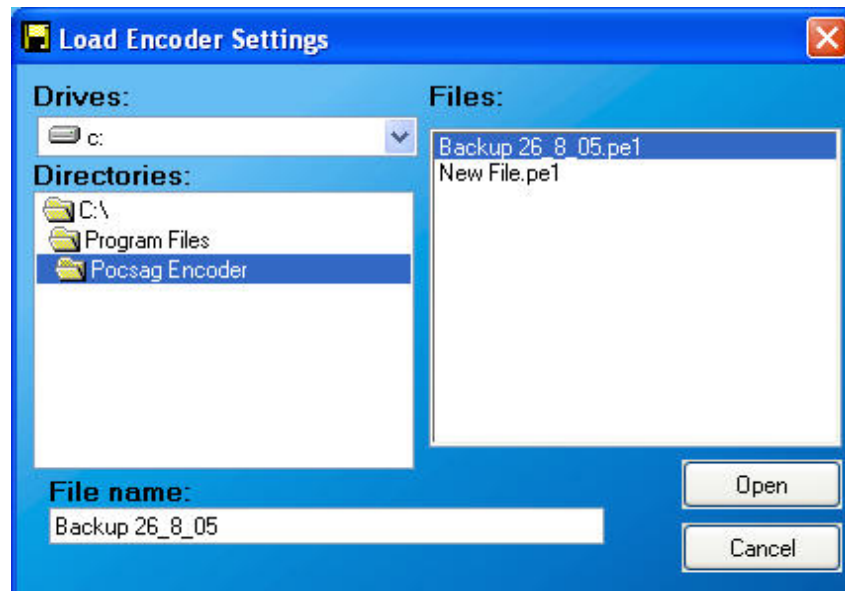


Click on **New** under the **File** Menu and the **New Filename** Window is displayed as shown below. Type in the desired **File name** and click **OK** Button when finished. This will create a filename that the current settings will be stored in.

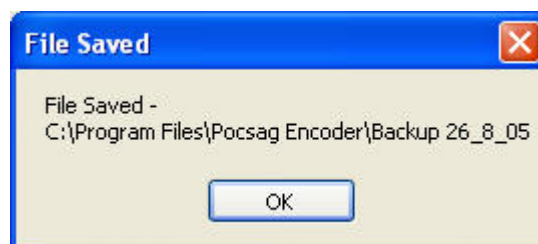


Loading and Saving Files (SmartPage Database)

Click on **Load** under the **File** Menu and the **Load Settings** Window is displayed as shown below. Select the desired file from the right window and click the **Open** Button. The settings stored in the file will be uploaded into the program.



To save any changes that have been made to a file that has been newly created or loaded simply click on the **Save** Button under the **File** Menu to save the settings to the file. Once the file is saved a confirmation window will be displayed, as shown below. Click the **OK** Button to continue.

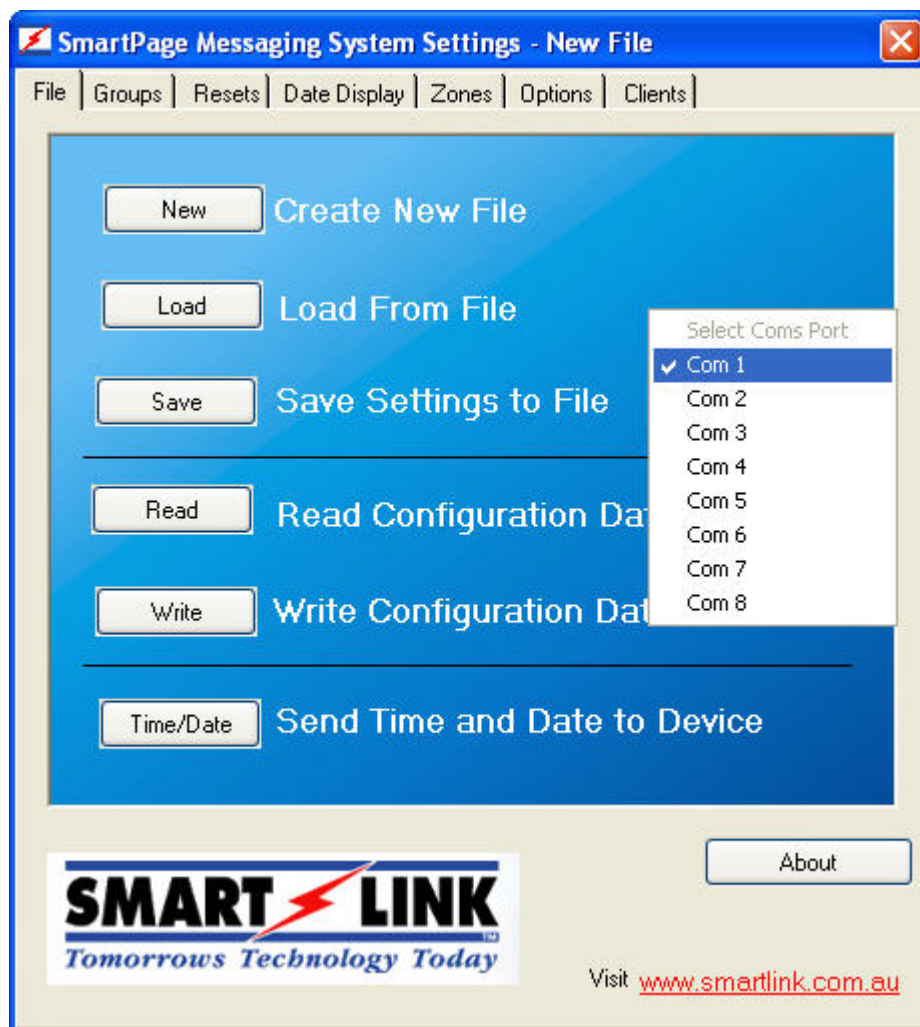


Establishing Communication with the Hardware

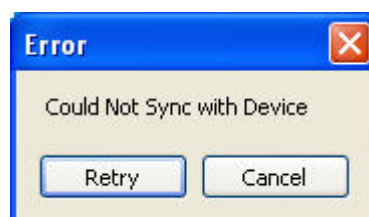
To enable the use of the **Read**, **Write** and **Time/Date** functions the SmartPage unit must be connected to the PC running the SmartPage software via a **serial DB9 connector**. The serial connector must be connected to PORT 1 of the SmartPage.

To select an available **COM Port** on the PC, simply **right** click anywhere on the **blue** Menu window and a list of COM ports will appear. Proceed to select the appropriate COM Port by clicking on it. Once selected, a small tick will appear next to the COM port indicating that it has been selected.

NOTE: The PC must have **COM1** listed as one of its communications ports under **Windows (Control Panel -> System -> Hardware)**, otherwise the SmartPage software will not allow any other COM port to be selected.

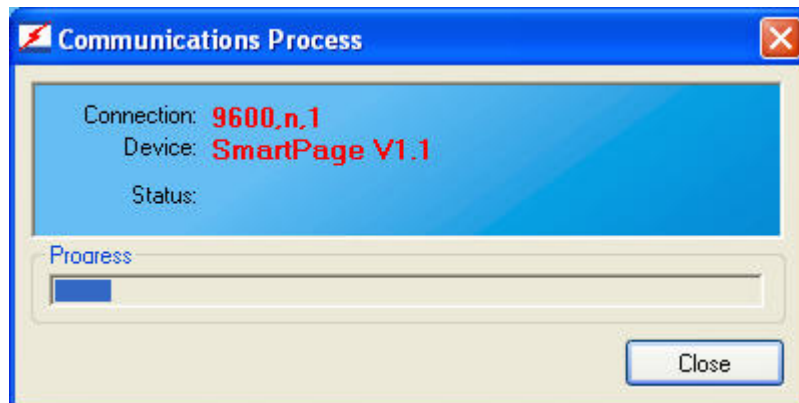


Note: If the SmartPage unit is connected to another COM port the following error message (as shown below) will be displayed when synchronisation is attempted.



Read, Write and Time/Date functions (SmartPage Database)

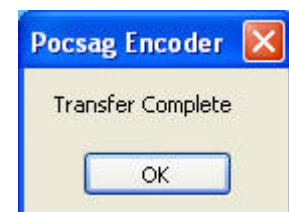
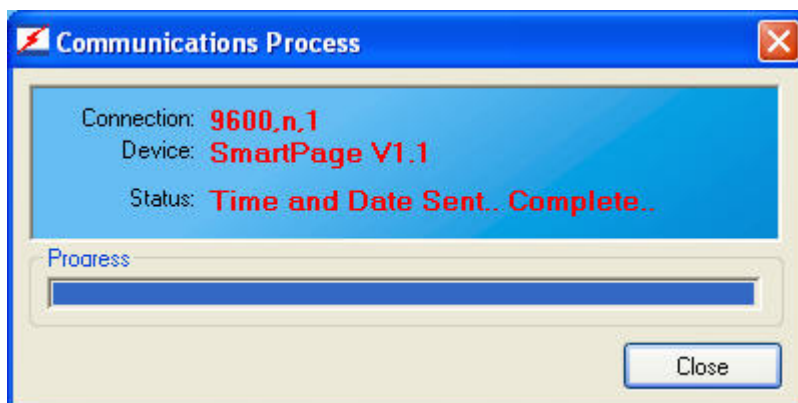
Once the connection is established, click on the **Read** Button under the **File** Menu. The following window will appear to confirm that communication has been established and reading is **in progress**.



Once the Read function is completed the following message will be displayed as shown below. The **Write** function operates in a similar fashion.



To send the current **Date and Time** to the SmartPage unit click on the **Time/Date** Button under the **File** Menu. A progress bar will be displayed, followed by a "Transfer Complete" message as shown below.



Groups Setup (Create/Edit Groups and Group Names)

Click on **Groups** and the Groups Menu Screen is displayed as shown below.

The screenshot shows a window titled "SmartPage Messaging System Settings - New File" with a close button in the top right corner. The window has a menu bar with "File", "Groups" (selected), "Resets", "Date Display", "Zones", "Options", and "Clients". The main area is titled "Create / Edit Groups and Group Names". It contains the following fields:

- Group Number:** A dropdown menu showing "1".
- Group Name:** A text box containing "Staff Pager & Remote Display".
- Escalation:** A dropdown menu showing "1 - Staff Pager & Remote Display".
- Repeat:** A section with two spinners: "Repeat Count" set to "1" and "Repeat Delay" set to "300".
- Cap Codes:** A section with a grid of 28 text boxes (4 columns by 7 rows). The first two boxes contain "0050808" and "0123464".
- Remove Group:** A button at the bottom right.

To create a new **Group**, simply select or enter a Group Number (between 1 and 16).

Enter a **Group Name** (up to 128 characters). For example: Staff Pager & Remote Display.

Select the **Escalation** from the pull down button.

Enter the number of **Repeat Count** (between 0 and 255).

Enter the number of **Repeat Delay** (between 20 and 2400 in Seconds).

Enter the 7 digits **Cap Code** for each Group (up to 32 Cap Codes and must be Less than 2097152). For example: Staff Pager 0050808 and Remote Display 0123464 Cap Codes.

Resets Setup (Reset Pagers)

The **Resets** and **Date Display** features are included mainly to cater for the **Remote Display Wireless Decoders**, otherwise known as **Wireless Displays**. Whenever the SmartPage unit is reset the CAP codes listed under the “Reset” menu are also reset. The CAP codes listed under the “Date Display” menu are sent the current date and time.

Click on **Resets** and the Resets Menu Screen is displayed as shown below.

SmartPage Messaging System Settings - New File

File | Groups | Resets | Date Display | Zones | Options | Clients

When SmartPage Messaging System is Reset,
All Devices with these Cap Codes will be Reset

Cap Codes

0123464			

Enter the 7 digits **Cap Code** (up to 32 Cap Codes).

For example: Remote Display 0123464 as the Cap Code.

The **Remote Display Wireless Decoder** unit will be reset when the SmartPage Master unit is RESET.

Date Display Setup (Sends Date to Cap Codes at Midnight)

The **Resets** and **Date Display** features are included mainly to cater for the **Remote Display Wireless Decoders**, otherwise known as **Wireless Displays**. Whenever the SmartPage unit is reset the CAP codes listed under the “Reset” menu are also reset. The CAP codes listed under the “Date Display” menu are sent the current date and time.

Click on **Date Display** and the Date Display Menu Screen is displayed as shown below.

The screenshot shows a software window titled "SmartPage Messaging System Settings - New File". It has a menu bar with "File", "Groups", "Resets", "Date Display", "Zones", "Options", and "Clients". The "Date Display" tab is selected. Below the menu bar is a blue header box with the text: "At Midnight the SmartPage Messaging System will send the Date to Devices with these Cap Codes". Below this is a section titled "Cap Codes" containing a grid of 32 input fields arranged in 8 rows and 4 columns. The first input field in the top-left corner contains the text "0123464".

Enter the 7 digits **Cap Code** (up to 32 Cap Codes).

For example: Enter **0123464** as the Cap Code for the Remote Display.

At **Midnight**, the SmartPage Master unit will send the Date to the Remote Display Wireless Decoder (0123464).

Zones Setup (Zone 1 - 8 Descriptions)

Click on **Zones** and the Zones Menu Screen is displayed as shown below.

Additional **Zone Descriptions** may be entered to describe each of the 8 zones.

Normally, when using SmartLink Devices, **Zone 5**, **Zone 6**, and **Zone 7** are labelled **Patient**, **Wet Area**, and **Staff Assist** respectively as they are the zones used by the three different types of "Call". You may choose to label these zones based on your individual setup.

SmartPage Messaging System Settings - New File

File | Groups | Resets | Date Display | Zones | Options | Clients

Zone Descriptions

These Descriptions will be Appended to the Client Description in the Paged Message

Zone Descriptions

Zone 1

Zone 2

Zone 3

Zone 4

Zone 5

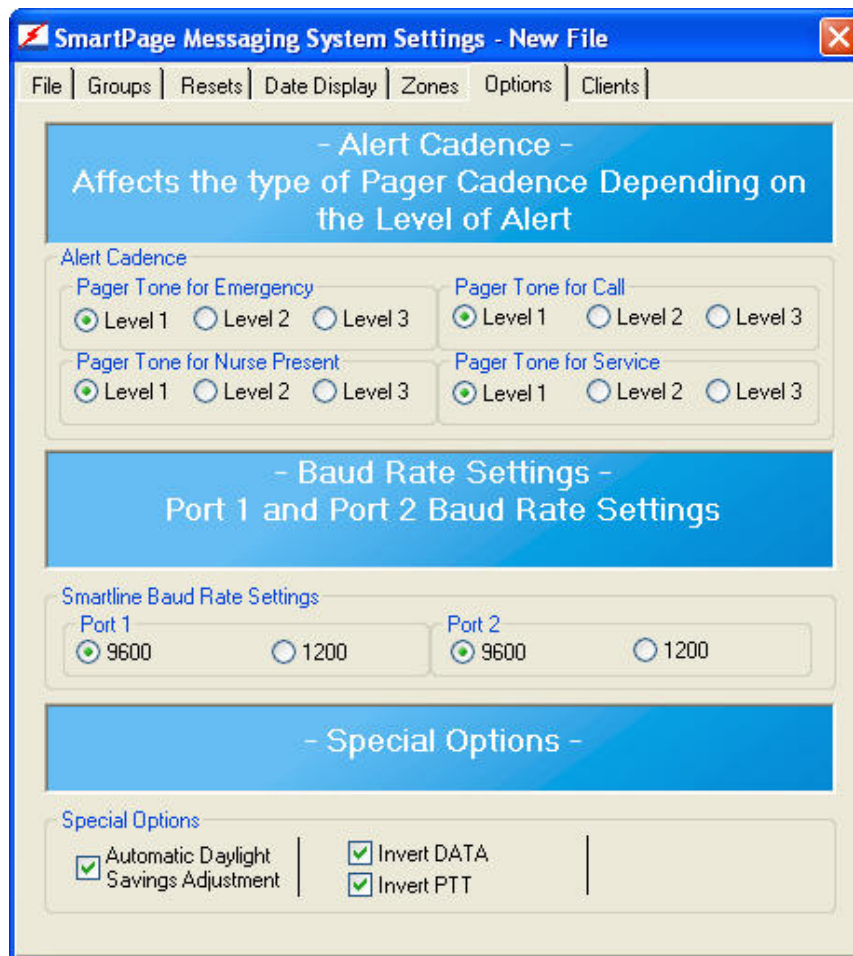
Zone 6

Zone 7

Zone 8

Options Setup (Alert Cadence, Receiver Settings & Special Options)

Click on **Options** and the Options Menu Screen is displayed as shown below.



Select the **Alert Cadence** or leave as default.

Select the appropriate **Baud Rate** Settings.

The SmartPage receiver ports (**Port 1** and **Port 2**) can handle Ademco "High Speed" format for a variety of SmartLink products and systems including SmartLink Medi-Call Dialler Units (Utilising SCU2 Receiver).

This SmartPage Receiver Port allows receipt of information from various SmartLink products where it is automatically linked to Clients and paged onto the relevant pagers.

NOTE: **SmartLine Wireless** set to **9600** Baud Rate
 SmartWire MKII Nurse Call set to **9600** Baud Rate
 SCU2 Receiver set to **1200** Baud Rate

Select the appropriate **Special Options**.

For the transmitter to function, the "**Invert DATA**" and "**Invert PTT**" settings will have to be checked with the manufacturer's specifications.

- If using a **PT400** or **PT500** transmitters, ***both boxes*** will be ticked.
- If using a **Maxon** transmitter, only "***Invert PTT***" ***box*** will be ticked.

Clients Setup (New / Edit Clients)

Click on **Clients** and the Clients Menu Screen is displayed as shown below.

The screenshot shows a software window titled "SmartPage Messaging System Settings - New File". It has a menu bar with "File", "Groups", "Resets", "Date Display", "Zones", "Options", and "Clients". The "Clients" menu is active, displaying a sub-menu titled "Create \ Edit Clients".

Below the sub-menu, there are two input fields: "Client Code" with the value "1001" and a "New Client" button, and "Client Name" with the value "Unit 001 - Mrs Brown 95960770" and a "Search" button.

Below these fields, there are four tabs: "Emergency", "Call", "Nurse Present", and "Service". The "Emergency" tab is selected, showing a list of "Group Names" with dropdown menus. The first four dropdowns are set to "1 - Staff Pager & Remote Display", and the next four are set to "0 - No Group".

At the bottom of the window, there is a "Save Client" button.

To create a **New Client**, simply enter a **Client Code** (4 Digits).

Enter a **Client Name** (up to 80 characters). For example: Unit 001 – Mrs Brown 95960770

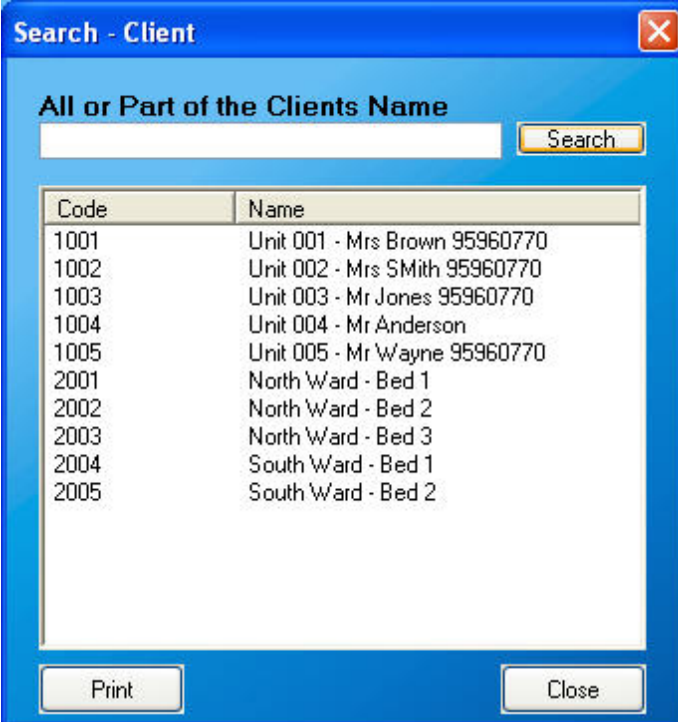
Select the **Group Names** from the pull down button for each **Emergency**, **Call**, **Nurse Present** and **Service**.

Click on **Save Client** when finished.

NOTE: The maximum number of Clients available are 1900. The Client Code may be any 4 digit combination ranging from 0001 to 9999.

Clients Setup (Search Clients)

Click on **Clients**, then **Search** Clients and the Search Client Screen is displayed as shown below.

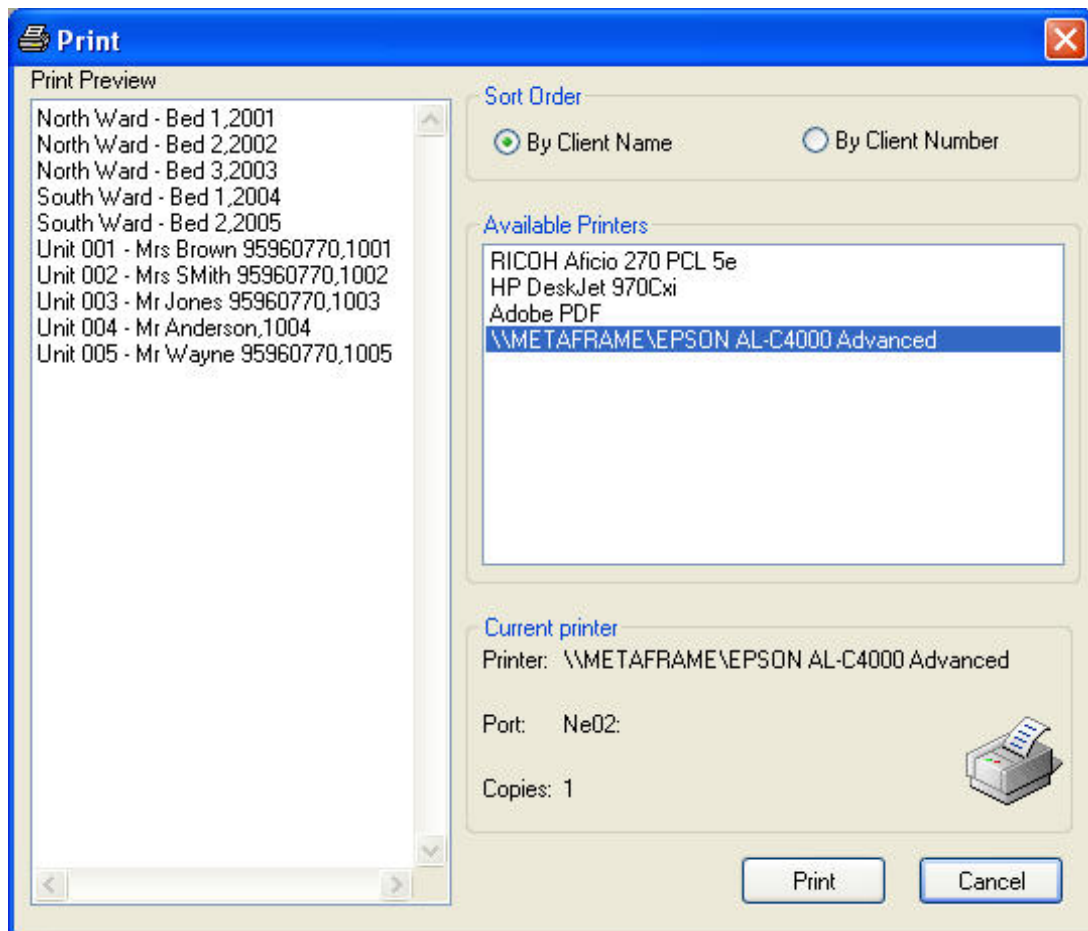


Code	Name
1001	Unit 001 - Mrs Brown 95960770
1002	Unit 002 - Mrs SMith 95960770
1003	Unit 003 - Mr Jones 95960770
1004	Unit 004 - Mr Anderson
1005	Unit 005 - Mr Wayne 95960770
2001	North Ward - Bed 1
2002	North Ward - Bed 2
2003	North Ward - Bed 3
2004	South Ward - Bed 1
2005	South Ward - Bed 2

Enter **All or Part of the Clients Name** or just click on **Search** as shown above.

Clients Setup (Print Clients)

Click on **Clients**, **Search** Clients then **Print** and the Print Screen is displayed as shown below.



The order in which the **Client List** is Printed may be changed by selecting:

- **By Client Name**
- **By Client Number**

Select the **Available Printer** you wish to print and click on the **Print** Button.



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**Unit 4/56 Norcal Rd,
Nunawading VIC 3131 Australia
Tel: +61 3 9875 6400 Fax: +61 3 9875 6422
Email: smartlink@ness.com.au
Website: www.smartlink.com.au**

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