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SL-ADCM

(Addressable Display Controller Module)



INSTALLATION MANUAL

1. Contents

1. Contents	1
2. Equipment List	1
3. Overview	2
Introduction.....	2
Power Supply (5V DC Input).....	2
4. Installation	2
Connecting SL-ADCM.....	2
5. SmartWatch XP Monitoring Software Setup	3
Ports Setup.....	3
TAP Setup.....	4
Contacts Setup.....	6
Clients Setup.....	6
6. SL-ADCM Setup	7
Opening Screen Setup.....	7
Options Screen Setup.....	7
Address Setup.....	8
New Address Setup.....	8
Browsing the Address Data.....	9
Adding New Keyword.....	9
Browsing Keywords.....	10
7. Technical Specifications	11

2. Equipment List

- SL-ADCM (Part No. SL-ADCM)
- 5V DC Power Supply (**WARNING! DO NOT USE 12V DC Power Supply**)
- Null Modem Cable (DB9 Pin – Female to Female)
- Green Connector (3 Pin)
- Installation Manual
- SmartLite Addressable Displays (**Sold Separately**)

3. Overview

Introduction

The **SL-ADCM** unit is an **Addressable Display Controller Module** which drives the **SmartLite Addressable Displays** (Annunciator) panels on an RS485 data buss providing addressability, alert sounds, and sound level control all on the one buss. No audio cabling is required as each display will generate the required alert sound.

Note: The SL-ADCM operates from the **TAP Output** on **SmartWatch XP Monitoring Software**.

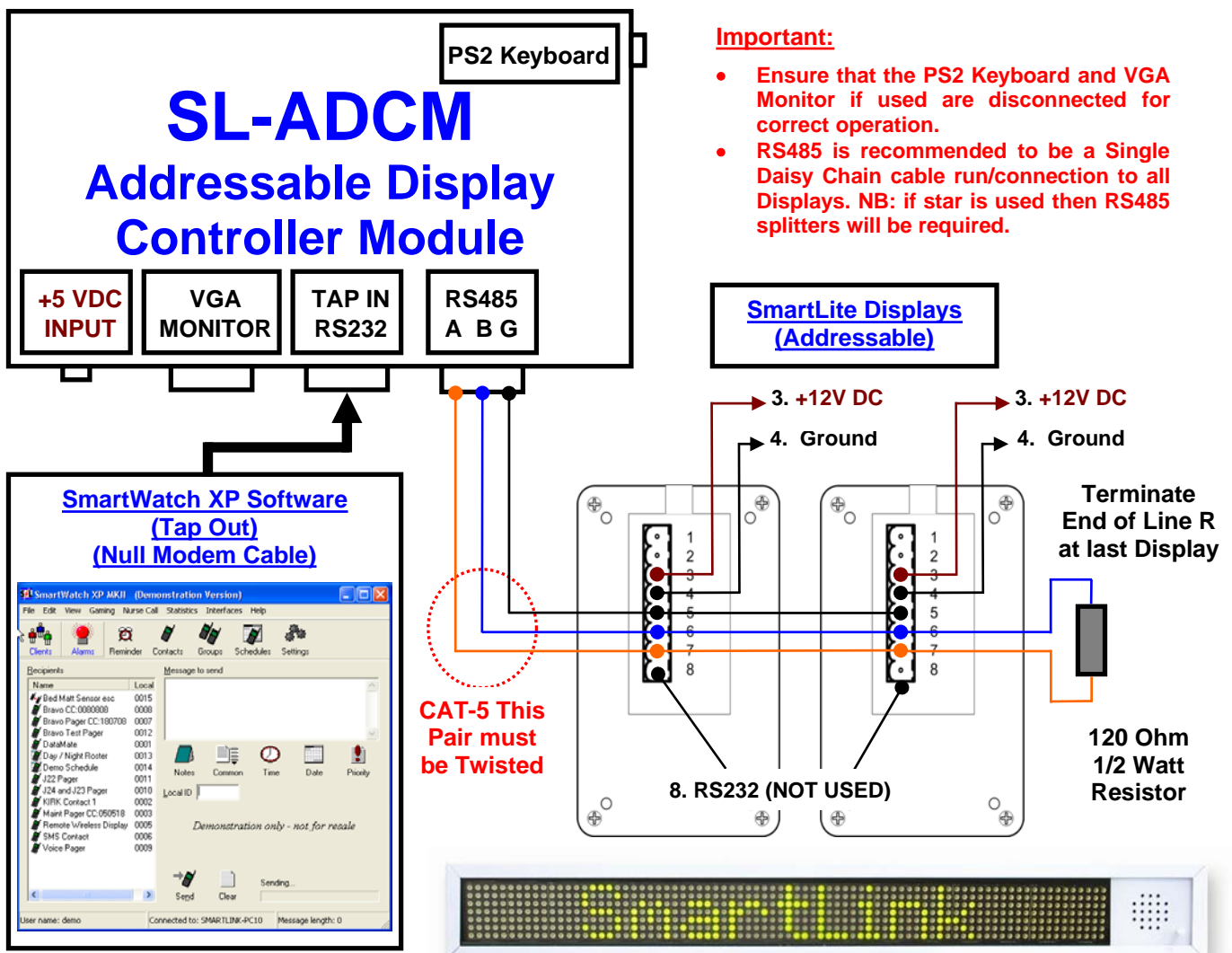
Power Supply (5V DC Input)

This connector is used to supply power to the SL-ADCM unit. The **SL-ADCM** unit requires **5V DC (WARNING! DO NOT USE 12V DC Power Supply)**. You will have been supplied with a suitable power supply which will plug straight into this socket.

4. Installation

Connecting SL-ADCM

The SL-ADCM unit is designed to be connected to **SmartWatch XP Monitoring Software** and **SmartLite Addressable Displays**.

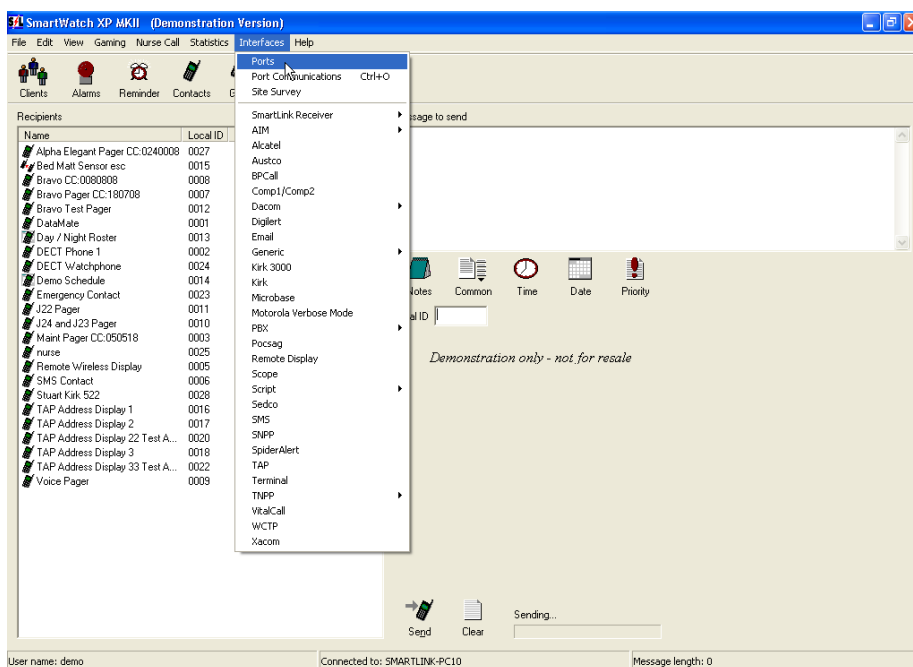


5. SmartWatch XP Monitoring Software Setup

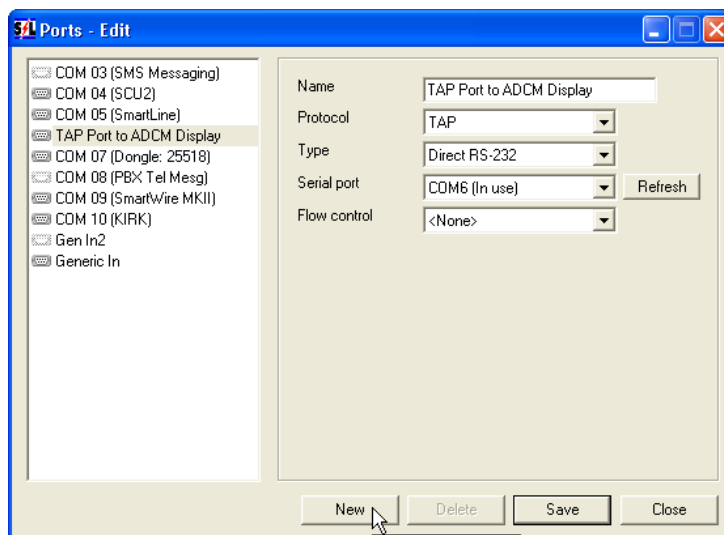
Once the SL-ADCM unit is connected, the SmartWatch XP Monitoring Software must be Setup to match to ensure its correct operation.

Ports Setup

1. Ensure you are logged on as **Maintenance User** (see SmartWatch XP Help for details).
2. From the **SmartWatch XP Main Screen**, click **Interfaces** and then select **Ports** as shown below.



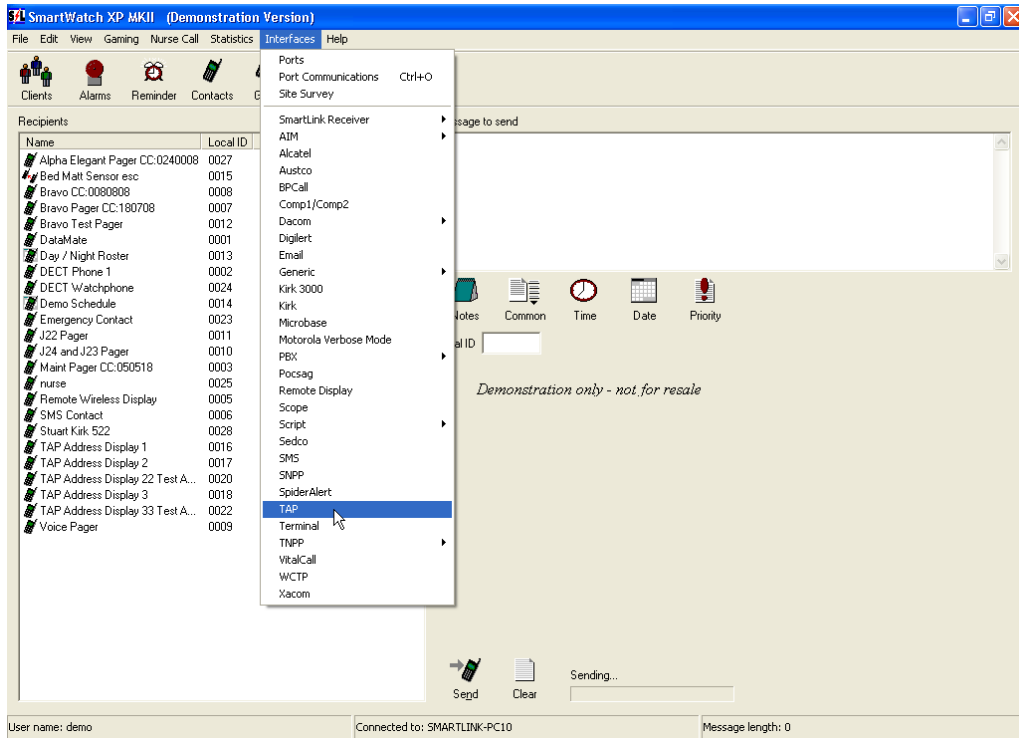
3. Click **New** to create a New Port and type eg. **TAP Port to ADCM Display** as the Name as shown below.



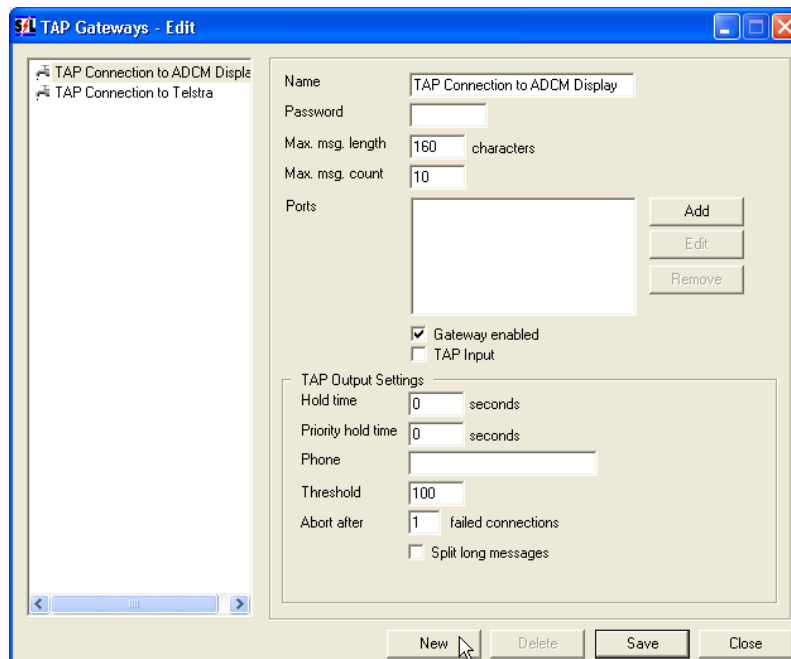
4. In the **Protocol** field, select **TAP** from the drop down list.
5. In the **Type** field, select **Direct RS-232** from the drop down list.
6. In the **Serial Port** field, select an available **COM** from the drop down list and ensuring your SL-ADCM unit is connected to that port.
7. In the **Flow Control** field, select **<None>** from the drop down list.
8. Click **Save**, then **Refresh** and **Close** when completed.

TAP Setup

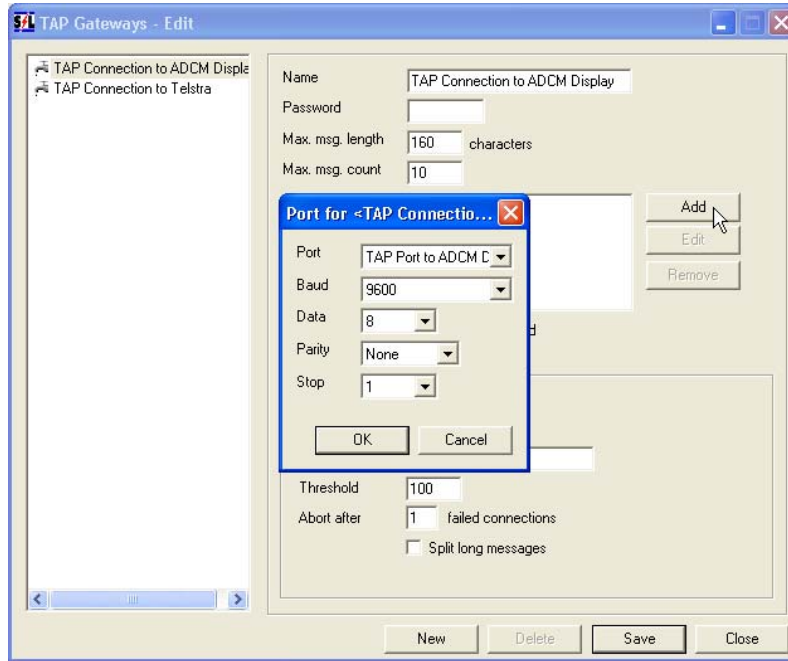
1. To Setup the TAP Gateways, click **Interfaces** and then select **TAP** from the **SmartWatch XP Main Screen** (As shown below).



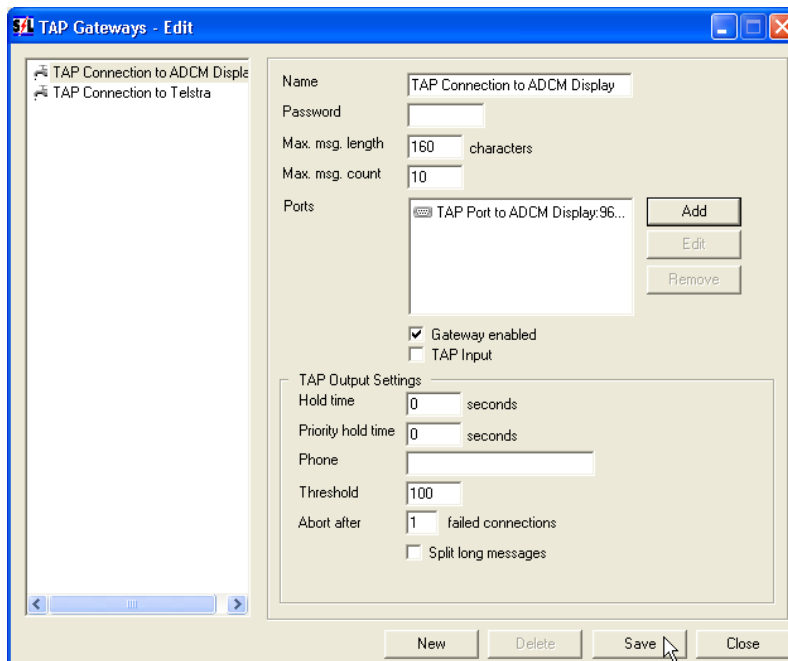
2. Click **New** to create a New TAP Gateway and type e.g. **TAP Connection to ADCM Display** as the **Name** (As shown below).



3. Click **Add** and the screen below **Port for <Connectio...** will be displayed. Click **OK**.

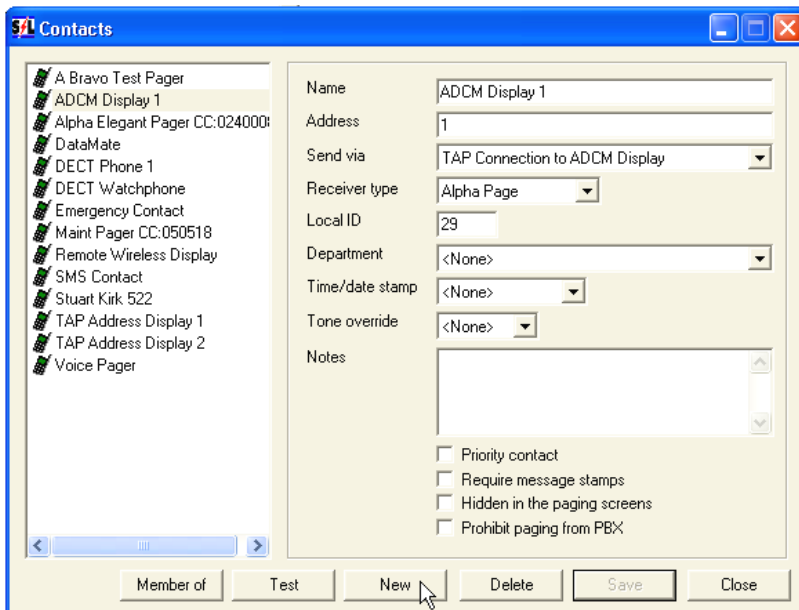


4. Click **Save** and then **Close** when completed (As shown below).



Contacts Setup

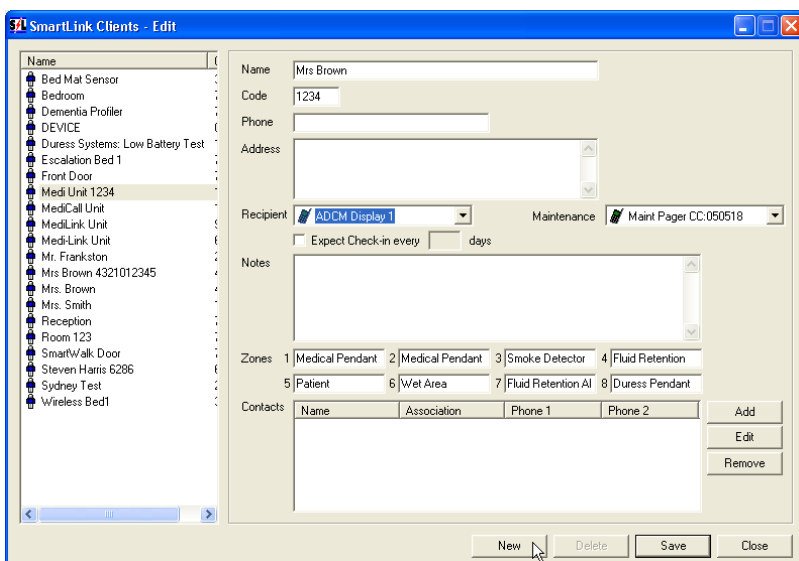
1. To Setup the Contacts, click **Contacts** from the **SmartWatch XP Main Screen**.
2. The Contacts screen is displayed as below.
3. Click **New** and type eg. **ADCM Display 1** as the **Name** (As shown below).



4. In the **Address** field, type **1** as the address.
5. In the **Send via** field, select **TAP Connection to ADCM Display** from the drop down list.
6. Click **Save** and then **Close** when completed.

Clients Setup

1. To Setup the Clients, click **Clients** from the **SmartWatch XP Main Screen**.
2. The SmartLink Clients screen is displayed as below.
3. Click **New** and type eg. **Mrs Brown** as the **Name** (As shown below).



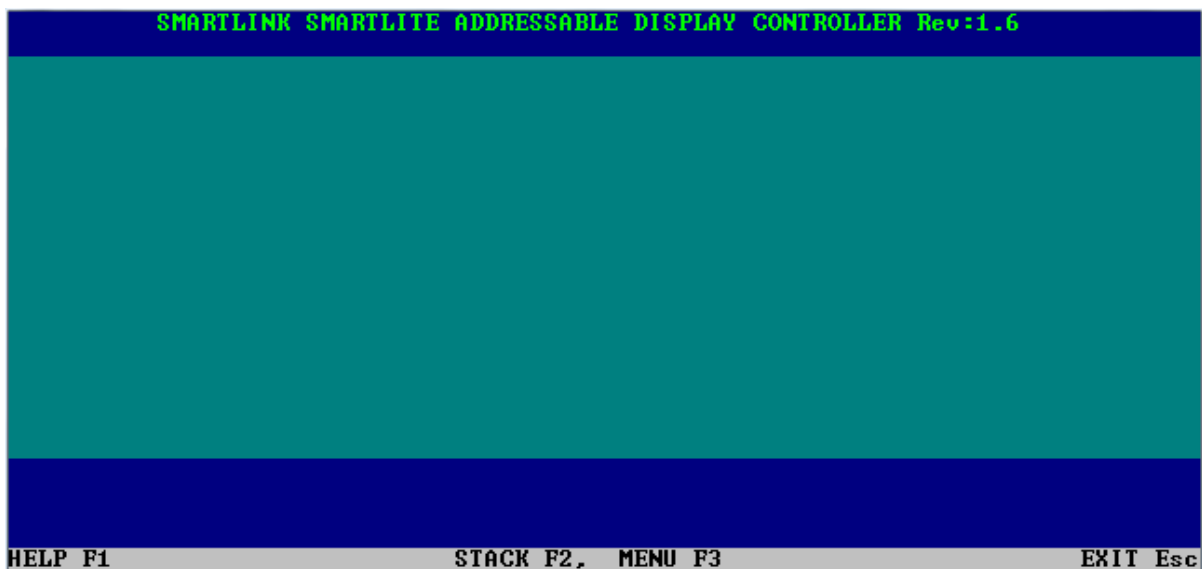
4. In the **Recipient** field, select **ADCM Display 1** from the drop down list.
5. Click **Save** and then **Close** when completed.

6. SL-ADCM Setup

WARNING! DO NOT CHANGE/EDIT ANY OF THE DEFAULT SETTINGS FOR CORRECT OPERATION OF EXISTING SMARTLINK EQUIPEMENT.

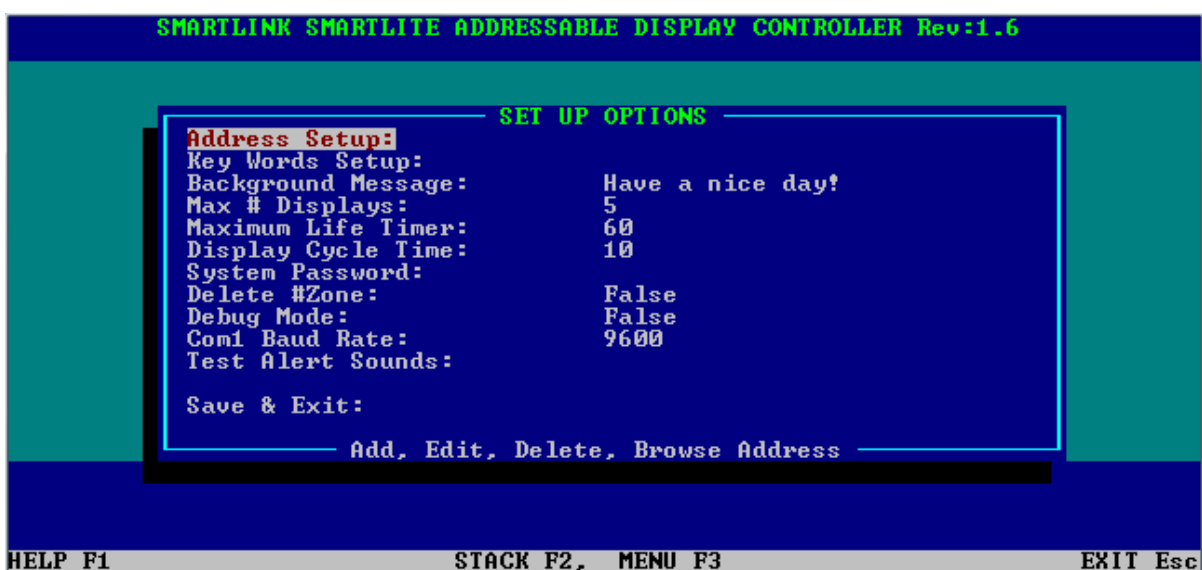
Opening Screen Setup

NB: SL-ADCM automatically do Self Test and log into the Opening Screen as soon as 5V DC is connected. If not, prompt "C:\ADCM1_9>" type **adcm** and press ENTER on the Keyboard.



- F1 Contains most of these notes in text form.
- F2 Shows the current stack of display information.
- F3 Selects the set-up menu.
- Escape Exits the program

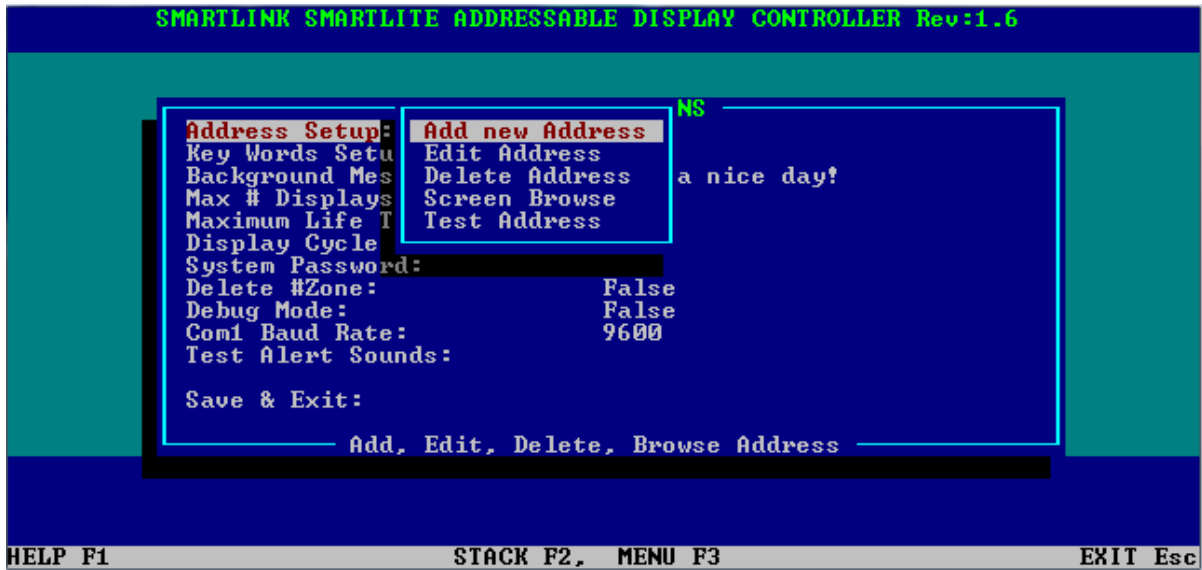
Options Screen Setup



The Address and Keywords setup enable data base entries. Functions include **ADD**, **EDIT**, **DELETE**, and **BROWSE**.

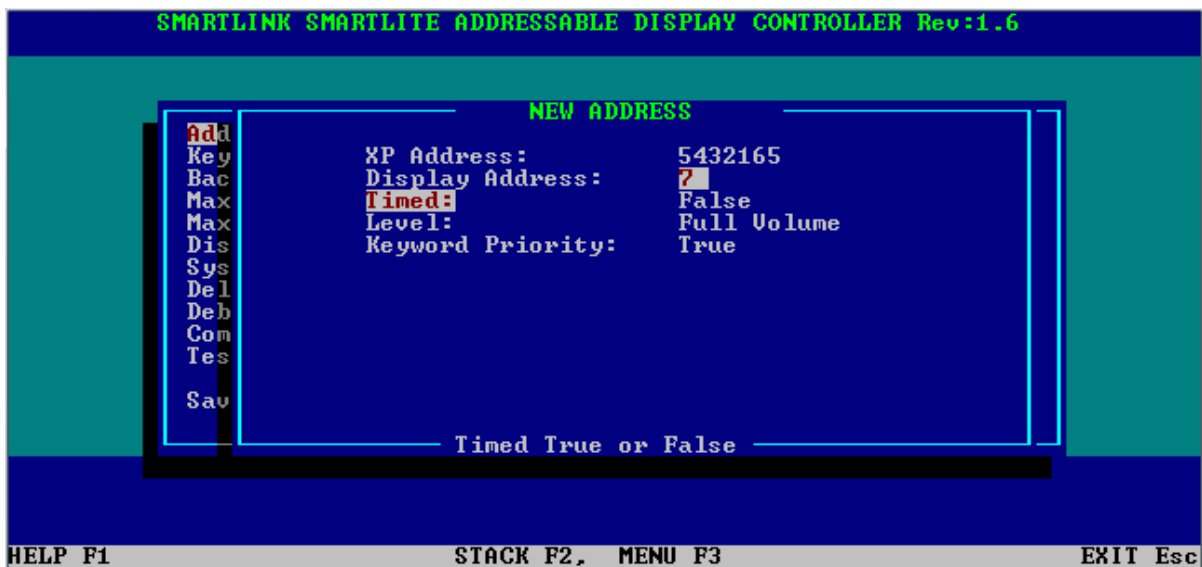
Test Alert Sounds allows you to test or demonstrate to the client the entire alert sounds contained within the SmartLite Addressable Displays. **NB: Maximum number of displays per system is 16**

Address Setup



This brings up the options to **ADD**, **EDIT**, **DELETE**, or **BROWSE**. Data cannot be changed from the **BROWSE** screen. The last option "**Test Address**" allows you to identify the addresses as set on all of the displays.

New Address Setup



When adding Address information you can select whether to make the information based on **KEYWORD** or **ADDRESS**. Normally the information is **KEYWORD** based and the above screen will only display down to "**Keyword Priority: True**". If however you select Keyword Priority to be false, then the rest of the menu will display asking you for information on the priority, mode, colour, and sound. You can have a mixture of Keyword and Address based information in the data base.

Browsing the Address Data

XPADD	DISPLAY	TIMED	KEYWORD	PRIORITY	LEVEL
1	01	F	T		Full Volume
2	02	F	T		Full Volume
1234567	01	F	F	1	Full Volume
5432165	7	F	T		Full Volume

[Esc] exit

HELP F1 STACK F2, MENU F3

You can see from this screen that the first two (**SHOULD BE 1 TO 16**) entries are KEYWORD based, and the last is not (**HAS BEEN DELETED**). Scrolling to the right will show the rest of the data.

Adding New Keyword

Address Setup: Add new Keyword NS

Key Words Setup Edit Keyword

Background Mes Delete Keyword a nice day!

Max # Displays Screen Browse

Maximum Life Time: 10

Display Cycle Time: 10

System Password:

Delete #Zone: False

Debug Mode: False

Com1 Baud Rate: 9600

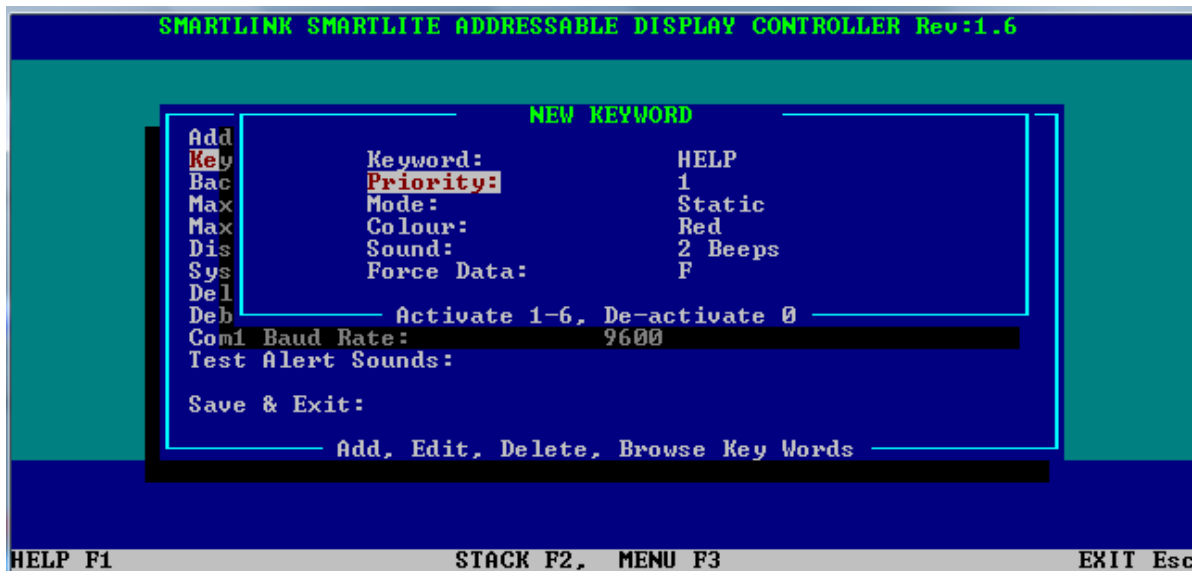
Test Alert Sounds:

Save & Exit:

 Add, Edit, Delete, Browse Key Words

HELP F1 STACK F2, MENU F3 EXIT Esc

Select "Key Words Setup" and then select "Add new Keyword".

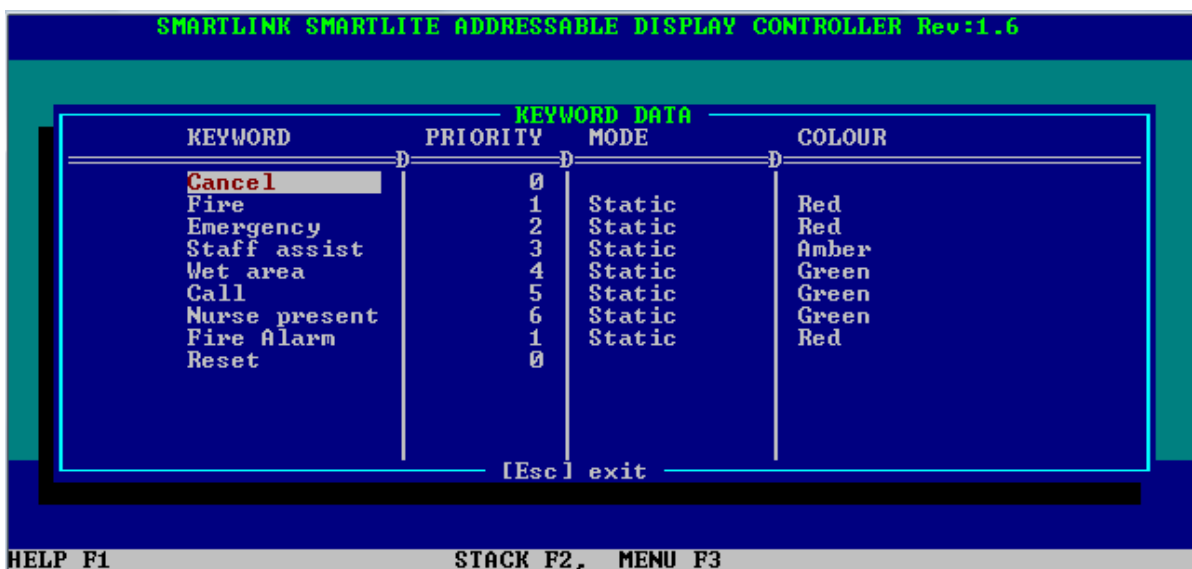


Enter the **Keyword, Priority, Mode, Colour,** and **Sound.**

The Field "**Force Data**" is used when the only match is the Keyword and you may want to have several messages with the same keyword put onto the display stack. For example "Fire". Setting Force Data to T (true) forces the message onto the display stack.

This would normally be set to F (false) except under special circumstances as in FIRE alarms.

Browsing Keywords



This is the default screen for KEYWORD setup. FIRE has the highest priority with Nurse present the lowest priority. There are only 6 priority levels.

FURTHER NOTES CONTAINED IN THE "F1" HELP SCREEN

No displays should be set to "0" meaning global. All displays require an address from 1 to 30

To send a message to ALL displays select all recipients in SmartWatch XP.

When setting up ADDRESS information, each XP address is related to a Display address. The norm is for the colour and sound to be Keyword related however it is possible to make the mode, colour, sound, & level XP address based.

ALL messages sent to the controller MUST contain KEY WORDS. (1-13 characters) General purpose messages may be sent with a Keyword like "Note" with a low priority.

KEY WORDS are used to ACTIVATE a display message and put it into the DISPLAY STACK. These may be edited and priorities set for each. To De-Activate or CANCEL a display KEYWORDS are also used. Activation keywords have a PRIORITY from 1 to 6. Up to 3 activation keywords may exist in any message, so the keyword with the highest priority is dominant.

All de-activation KEY WORDs must be set with PRIORITY = "0". These are not displayed but are removed from the display STACK.

During set-up, a utility is provided to write address information to the displays so that they can be identified.

An additional utility allows selecting sounds to the displays globally. This is useful in selecting the sound settings for each ADDRESS.

MAXIMUM LIFE timer for display messages may be enabled or disabled. If enabled the maximum life is 99 minutes. A display that exceeds this will revert to the background message. Maximum life timer is decremented with each refresh cycle.

The number following the # is the ZONE number and may be deleted from the display.

De-activation of a message requires text with a De-activation keyword and a match (not case sensitive), of Bracketed text, Highest Priority keyword, and Zone.

Messages do not have to contain brackets; however De-activation is then based on a match of the Activation Keyword and Zone only.

Some sounds will repeat automatically from the SmartLite Addressable Display firmware. The Refresh timer will also cause these sounds to be repeated as this refreshes the data to all displays from 1 to Max displays in the system.

At the refresh time the displays always show the highest priority messages only. Lower priority messages will not be displayed until the higher priorities are cleared with a CANCEL.

When new calls come in they will be displayed immediately provided they are higher on the priority list.

RESERVED SPECIAL FUNCTION KEYWORDS

The SL-ADCM has implemented several useful functions by way of using reserved words. These are as follows:

Time Background message:	"ADCMtime"
Reset messages to all displays:	"ADCMmasterreset"
Reset messages to a particular display:	"ADCMdisplayreset"

7. Technical Specifications

Note: Specifications subject to change without any notice.

Equipment Type.....	SL-ADCM (Part No. SL-ADCM)
Power Supply.....	5VDC @ 3.0 Amp Regulated
Supported Protocols	SmartLite Addressable LED Displays
Weight.....	.777 Grams
Dimensions.....	Length = 225cm x Width = 130cm x Height = 47cm



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