SAM4s SPS-2000

PC Utility
User's Manual



Version v1.0

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Getting Started

About the SPS-2000 PC Utility

The SPS-2000 PC Utility provides basic PC communication functions for Samsung SPS-2000 ECRs. This utility was designed primarily as a dealer tool - to save, edit, and download programs.

Note: The SPS-2000 PC Utility supports direct serial, Ethernet or modem communications.

SPS-2000 PC Utility Features

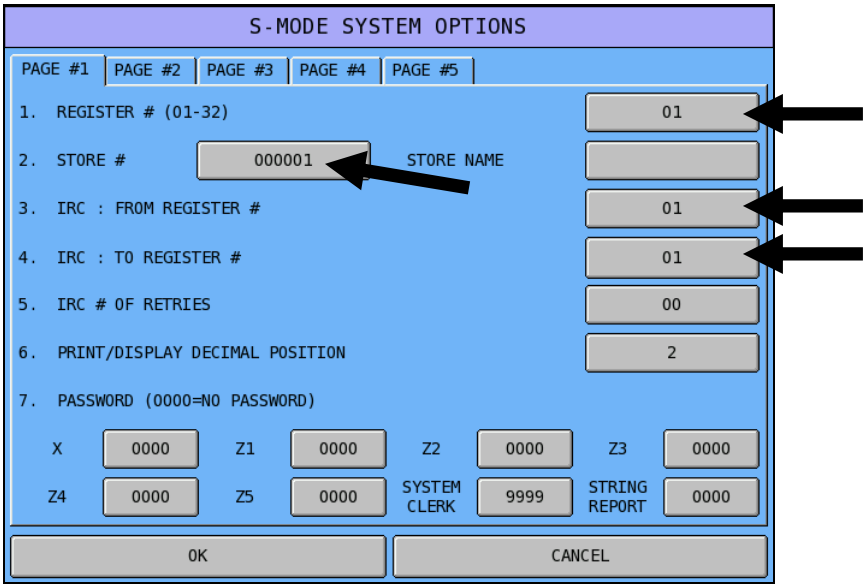
- Support Multiple Stores
- Save and Load ECR programs
- Download Logo Bitmaps
- Edit ECR programs

Note: The SPS-2000 PC Utility was developed to work best with a screen resolution of at least 1024 x 768 pixels.

SAM4s SPS-2000 Program Settings

S-Mode System Options

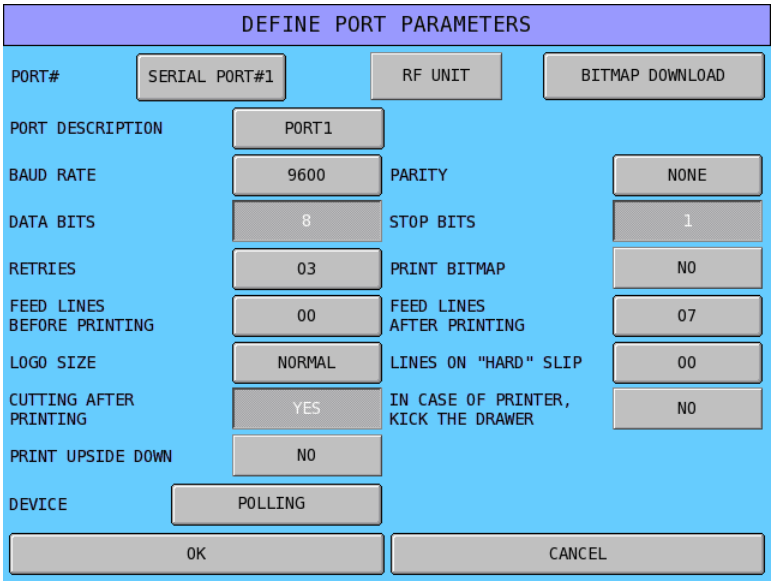
1. Go to **S-Mode**/**SYSTEM OPTIONS**.
2. Set up/verify your **REG#**, **STORE#, STORE NAME** and **IRC Range** on Page #1.



Setting a SPS-2000 RS-232C Port

At the SPS-2000, you must select 'POLLING' as the device that is attached to the RS-232C communications port.

1. Log on a clerk.
2. Turn the key lock to the **S** position. (**Note**: The **S** position is unmarked and one position clockwise from the **P** position. The key marked "C" accesses the **S** position.)
3. Select DEFINE PORT from the **S** mode PROGRAMMING MENU.
4. Select the appropriate ECR serial port.

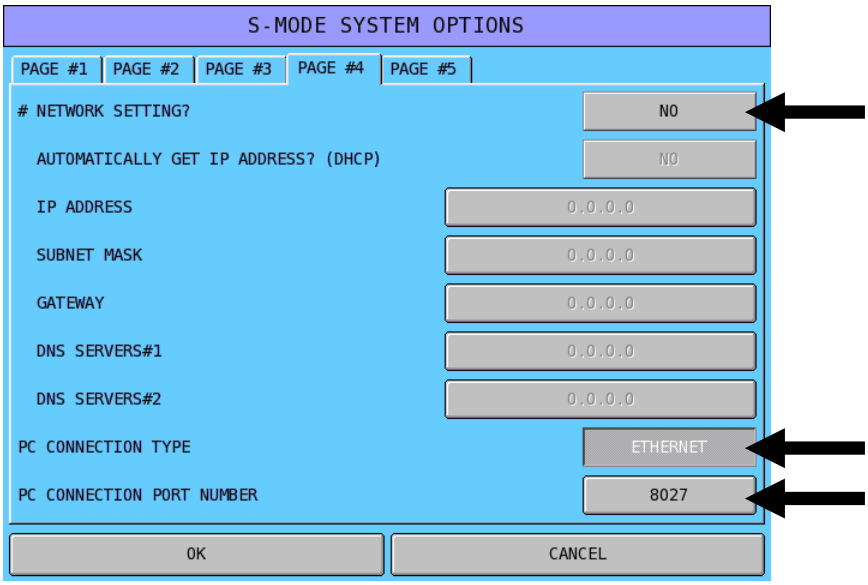


5. .Select the device function "POLLING". (Although this application is not polling, POLLING is the correct selection for PC communication.)
6. Set the BAUD, DATA BITS, PARITY & STOP BITS to match the settings on the PC port.
7. Touch OK to save the settings and exit.

Setting an Ethernet Connection

If you choose, you can connect the ECR to a PC via a direct Ethernet connection (not by Internet.)

1. Return to **S-MODE/SYSTEM OPTIONS**.
2. On Page #4 – there is no need to use # Network Setting.
   Make the following settings:
   - Network Setting? = NO
   - PC Connection Type = ETHERNET
   - PC Connection Port Number – Must match setting in PC Utility.



Preparing the SPS-2000 for Communications

The register must be ready for communications:

1. The register power must be on.
2. The register cannot be inside of a transaction.
3. The key lock can be in any position, other than Off.
4. Connect with the appropriate cable:
   - For serial communications: Connect the register directly to the PC with the appropriate cable. Use CRS #522032 (RJ-45 at ECR to DB-9F at PC) for ports 3 or 4 or CRS #522120 (DB-9F at ECR to DB-9F at PC) for ports 3 or 6.
   - For Direct Ethernet communication: Use a cross-over Ethernet patch cable.
   - For Modem Connection: Connect the register directly to the modem with the appropriate cable. Use CRS #522031 (RJ-45 at ECR to DB-9F at PC) for ports 3 or 4 or CRS #522120 (DB-9F at ECR to DB-9F at PC) for ports 1 or 2.

Installing the Utility

1. From Windows Explorer, locate the file:

   SAM4S SPS-2000 PC Utility.exe.

   Double click the file to open the installation dialog box.

2. Follow the instructions on the screen to complete the installation.

Starting the PC Utility

1. Choose Start, Programs, SAM4S SPS-2000 PC Utility and then 2000src. The Utility window displays



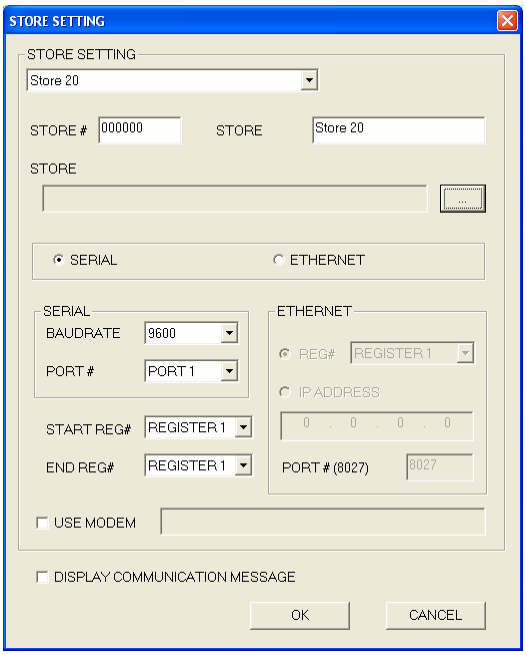
Utility Functions

Setup

Store Settings

You can manage up to 20 stores with the utility. For each store you must define a folder for file storage and define the connection with the PC.

1. Click Setup to display the Store Setting Dialog Box.



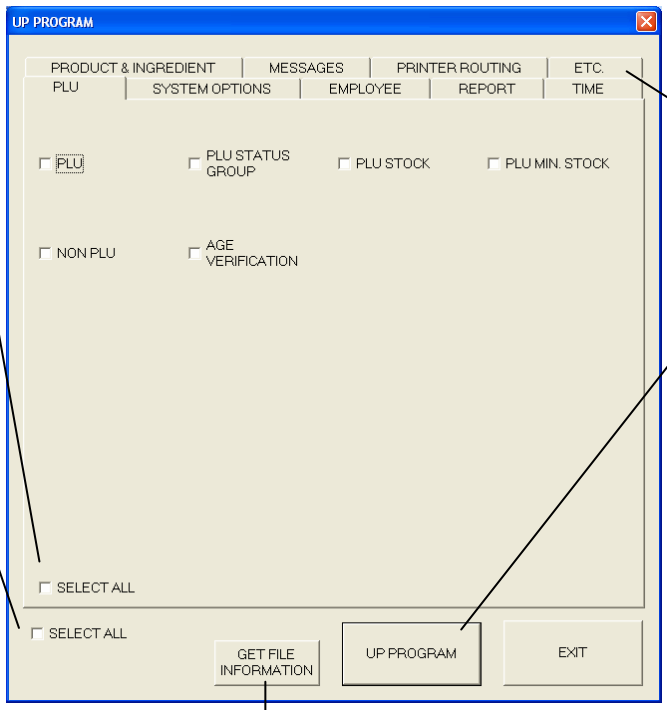
2. Select the Store number (1-20) from the Store Setting List box.
3. Set the store name and store (number). Values set here must match the values set at page #1 of SPS-2000 **S**-Mode System Options.
4. Define a folder for storing store data by clicking the (…) folder button. From the Select Folder dialog, select the path for the store directory and type the folder name in the text box and click **Make Folder** and then **OK**.

5. Select the Connection Type, Serial, Ethernet or Modem.
    a. If connection is Serial, set the BAUD and the PC Port number. BAUD must match port setting at the SPS-2000.
    b. If the connection is Ethernet, set the register #, IP Address (the default IP address for Reg. #1 is 192.168.0.11; see page #4 of S-Mode System Options at the ECR) and the Port # to 8027 (the default Port# is 8027).
    c. If the connection is Serial/Modem, select the Use Modem check box and enter the Phone number preceded by the letter **T** or **P** only if you intend to communicate with the register by modem. The **T** is for TONE and the **P** is for PULSE. US Robotics Sportster™ Modems are recommended for remote connections (for both PC and ECR sites).
6. Set the Start Reg # and End Reg # fields to match the values set at page #1 of SPS-2000 **S**-Mode System Options
7. Check the "Display Communication Message" check box if you would like a confirmation message when communications are completed.
8. Click OK to save the store settings.

UpProgram

You must upload a program before program edit functions are allowed.

From the Utility Main Menu select UP PROGRAM. Note that SPS-2000 program areas are organized on tabs. Click a Tab to view and select program components for uploading.



Click here to select all components on the tab that is currently diaplayed.

Select the tab you wish to view.

Click here to select all components on ALL tabs.

Click here to upload the selected program components. When Complete, the Program returns to the Main Menu.

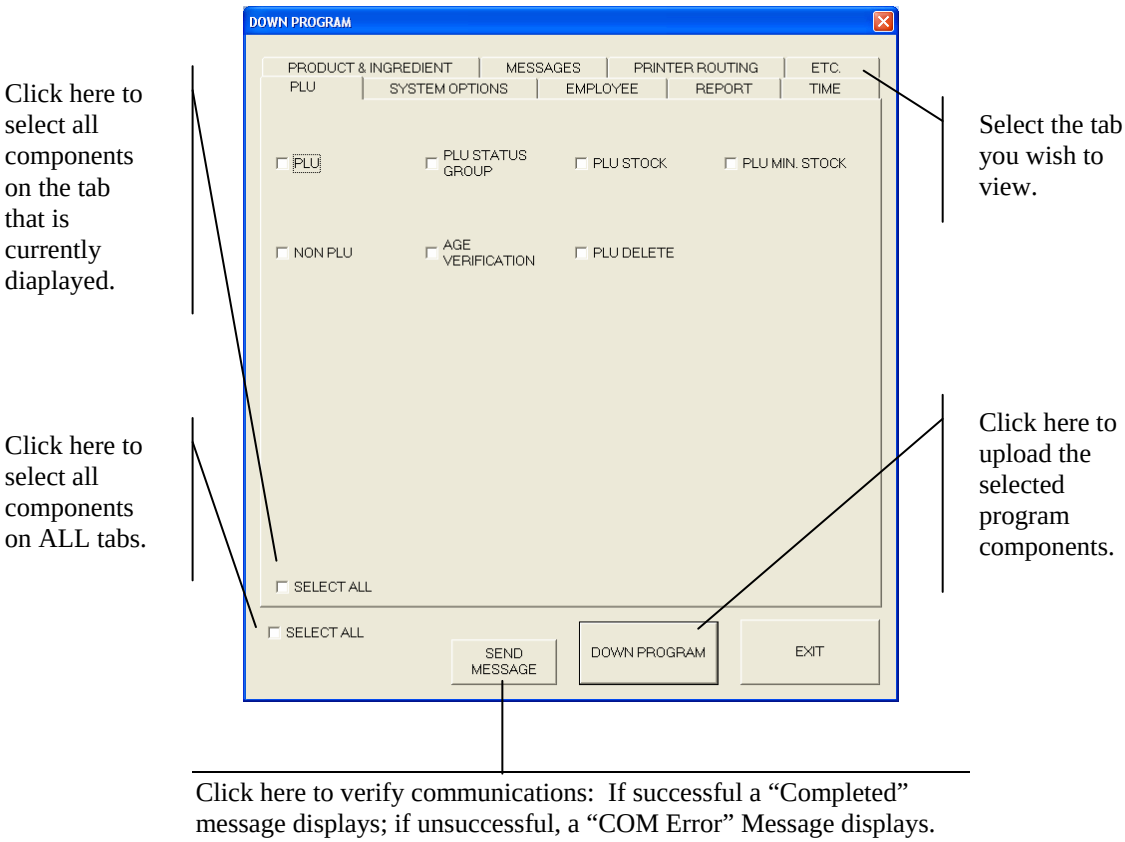
Click here to verify communications: If successful a "Completed" message displays; if unsuccessful, a "COM Error" Message displays. (When complete, program stays at current screen.)

DownProgram

The Memory Allocation for the Store Setting must match the memory allocation of the register that is being downloaded. Memory allocation is not uploaded or downloaded. Save and load memory allocation manually before downloading a program.

Downloading a program will overwrite the existing register program.

From the Utility Main Menu select DOWN PROGRAM. Note that SPS-2000 program areas are organized on tabs. Click a Tab to view and select program components for uploading.



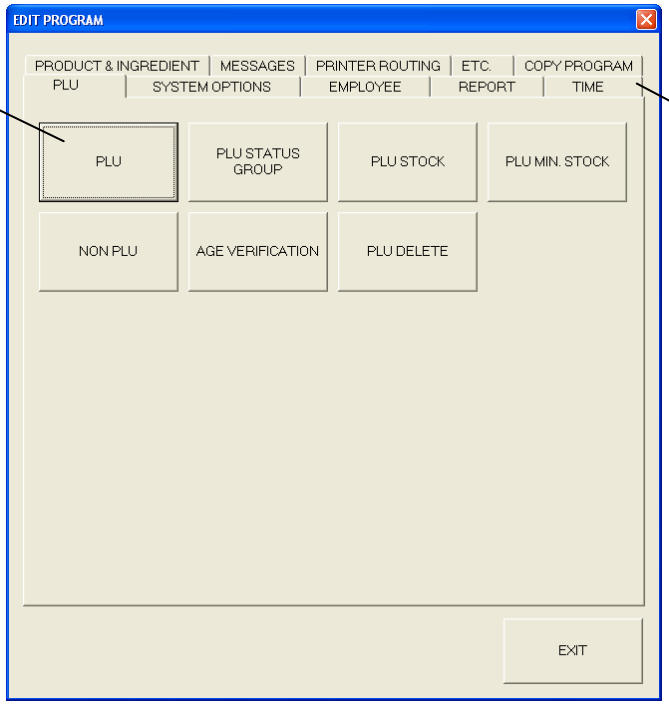
Edit Program

With the exception of memory allocation, all register programs can be edited with the PC Utility. You will find options neatly organized on tabs. If necessary, use the SPS-2000 Program Manual as a reference.

You must upload a program before program edit functions are allowed.

From the Utility Main Menu select DOWN PROGRAM. Note that SPS-2000 program areas are organized on tabs. Click a Tab to view and select program components for uploading.

Click the button that represents the specific area you wish to edit.



Select the tab of the program area you swish to edit.

Note: When editing descriptor fields, you can make bold characters print on the ECR by entering a tilde (~) before each character. Each bold character occupies 2-character positions.