![Dantel logo]

46502

STATUS MONITOR
GPP EDITOR

Y2K Compliant

Table of Contents

About this Practice:

This practice has been reissued to:

- Document up-issue of the product to incorporate enhancements for operating on PC's with clock speeds in excess of 200 MHz.

Reissued Practices: Updated and new content can be identified by a banner in the right margin.

Issue date: September 1999

UPDATED

CAUTION

- Install or remove modules from the shelf only when the power is off. If you install a module in the shelf with the power on, the internal circuitry may suffer damage and the product warranty will be void.

- Remove and install circuit boards only in a static-safe environment (use antistatic wrist straps, smocks, footwear, etc.).

- Keep circuit boards in their antistatic bags when they are not in use.

- Do not ship or store circuit boards near strong electrostatic, electromagnetic, magnetic, or radioactive fields.

- For more complete information on electrostatic discharge safety precautions, refer to Bellcore™ Technical Reference # TR-NWT-000870.

ORDERING INFORMATION

NOTE: This section lists the different options available for this product. To order any of the available options, contact Dantel Inside Sales through our toll-free number, **1-800-432-6835.**

OPTION NUMBER	FEATURES
B22-46502-02	Status Monitor T/Shell Version 2.10

INSTALLATION

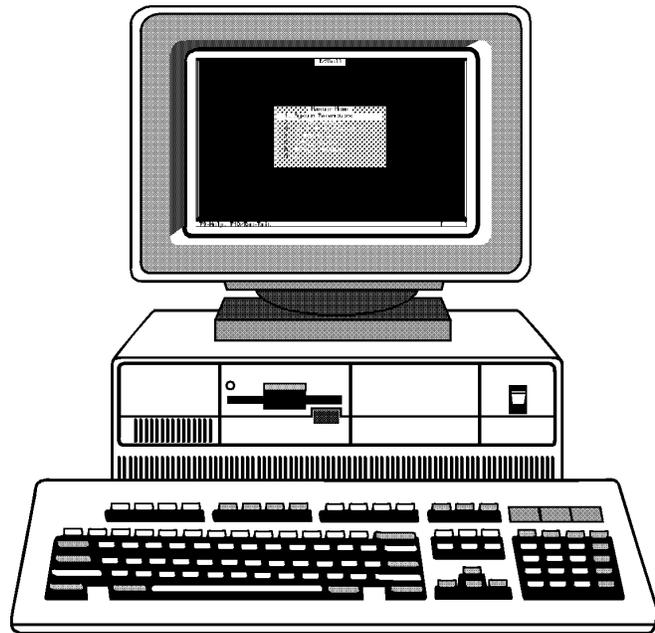This chapter explains how to install the T/Shell software program with the 46502 Status Monitor GPP Editor on your computer.

The T/Shell program can be installed on an IBM™-compatible computer equipped with the following:

- ♦ 640K of memory

- ♦ CGA/EGA/VGA color (recommended), monochrome, or LCD monitor

- ♦ One serial port

- ♦ One 3.5" diskette drive

- ♦ One hard disk drive (recommended) or two 3.5" diskette drives

- ♦ DOS version 3.0 or later

TO INSTALL THE SOFTWARE PROGRAM ON YOUR COMPUTER:

1. Turn on the power to your computer and monitor. Wait for the DOS (Disk Operating System) prompt to appear.

2. Insert the 46502 software disk from Dantel into the diskette drive.

3. Make sure you are in the hard disk drive (normally C) where you want to install the program. At the prompt type **MD TSHELL** to make a directory called TSHELL.

4. Press Enter.

5. At the prompt type **CD TSHELL.**

6. Press Enter to change to the TSHELL directory.

NOTE: *If a TSHELL directory already exists on your computer, you may not be able to copy the new T/Shell program into the same directory. Dantel no longer provides copy protection with its software. T/Shell programs that are not copy-protected must not be placed in the same directory with T/Shell programs that are copy-protected.*

CONTINUED . . .

INSTALLATION

The following T/Shell programs are *not* copy-protected. Do *not* copy them into a directory that has T/Shell programs not listed below or has the same programs with lower version numbers.

- ♦ Status Monitor GPP Editor, B22-46502-XX, Version 2.0
- ♦ TL1 GPP Editor, F22-46504-XX, Version 2.2
- ♦ 40 MAP Editor, C22-46508-XX, Version 1.3
- ♦ 41 MAP Editor, C22-46512-XX, Version 1.1
- ♦ X.25 Sync Editor, A22-46513-XX, Version 2.1
- ♦ X.25 Cascade Editor, A22-46516-XX, Version 1.0
- ♦ TL1/NMA Converter Editor, A22-46521-XX, Version 1.0
- ♦ X.25 Cascade Editor, A22-46522-XX, Version 1.0
- ♦ Status Monitor GPP Loader, A22-46703-XX, Version 1.0

If you do not know the version number of a T/Shell program that is already installed on your computer, go to the first screen of the program. Press the F1 (Info) key to display the version number.

7. Type **COPY A:*.*** This assumes that the disk is in drive A. If it is in a different drive, type the letter of that drive.

8. Press Enter to copy all the files into your TSHELL directory from the disk in your diskette drive.

9. After the software has been copied into the TSHELL directory, store the disk in a safe place.

STANDARDS

SOFTWARE STANDARDS

Highlight

A highlighted option in a menu is the currently selected option. To activate an option, do either of the following:

1. Press Enter if the option is highlighted.

2. Type the letter of the hot key. A hot key is a specific key that can open an option. With a color monitor, a hot key is indicated by a yellow letter. With a monochrome monitor, a hot key is indicated by a capital letter. In the Master Menu, the hot keys are the option numbers. When you use the hot key method, the option does not have to be highlighted.

F3

Opens the Terminal Emulation mode in most cases.

F8

Saves the entries that you make to the database configuration. If there is more than one entry field on a line, the cursor must be in the first field in order to save the information. See rule 1 of **F10 & Esc**.

F9

Activates on-line help.

F10 & Esc

In most cases the F10 and Esc keys work interchangeably. The following rules apply to the keys:

1. When editing a group of fields, they take you to the first field. If you are editing the first field, they exit that window.

2. If you are at a submenu, they return you to the previous menu.

3. If you are at the Master Menu, they bring up a window that asks if you want to exit the program.

Up Arrow

The up arrow usually does one of the following two things:

1. Selects the preceding option from a menu.

2. Selects the previous field within an option.

Dn Arrow

The down arrow usually does one of the following two things:

1. Selects the next option from a menu.

2. Selects the next field within an option.

FIELD EDITING STANDARDS

The software program checks each field for the correct type of entry. If a valid entry for a certain field is alphabetic and you press a numeric key, the computer beeps.

STANDARDS

When editing fields, the following keys are active:

KEY	FUNCTION
Enter	Accepts the field.
Ctrl-Z	Erases the current field.
Ctrl-R	Restores the default value.
Backspace	Deletes the previous character.
Ctrl-H	Lists the editing keys that are available.
Left Arrow	Moves the cursor *left* within the field.
Right Arrow	Moves the cursor *right* within the field.
Ctrl-Home	Moves the cursor to the *start* of the field.
Ctrl-End	Moves the cursor to the *end* of the field.
Del	*Deletes* the current character.
Ins	Toggles *insert* mode (types over current position).
Ctrl-Left Arrow	Moves the cursor *left* to the previous word.
Ctrl-Right Arrow	Moves the cursor *right* to the next word.
Ctrl-K or Alt-K	*Deletes* to the end of the field.
Ctrl-D	Calls up the Default Box if there is one.

There may be times when the screen cannot display all the data. In such cases, you can use special keys to scroll different parts of the data onto the screen.

Usually these special keys are active only when the cursor is at the first item (far left) in a given line of data. The special keys and their functions are as follows:

KEY	FUNCTION
Up Arrow	Moves the cursor up one line. When the cursor is on the top line, the previous line scrolls down into the window.
Down Arrow	Moves the cursor down one line. When the cursor is on the bottom line, the next line scrolls up into the window.
Home	Brings the first page of data into the window.
End	Brings the last page of data into the window.
PgUp	Brings the previous page of data into the window.
PgDn	Brings the next page of data into the window.

DEFAULT BOX

When you are defining certain fields, a default box appears to aid you in the selection process. The default box displays the valid selections for the current field that you are editing. You can either select from the default box or type the entry. To select from the default box, use the keys below, then press Enter.

KEY	FUNCTION
Tab	Moves the Select Bar down one selection.
Shift-Tab	Moves the Select Bar up one selection.

GETTING STARTED

The T/Shell software program with the 46502 Status Monitor GPP Editor lets you configure 46062 General Purpose Processor (GPP) databases.

To start the T/Shell program:

1. Make sure that you are in the TSHELL directory.

2. Type **TSHELL.**

3. Press Enter. The Dantel logo appears, followed a few moments later by the Master Menu. Here is an example of the Master Menu:


```
                  ══ Master Menu ══
           1.  system parameters
           2.  -41 map editor
           3.  gte necgpp editor
           4.  necgpp editor
           5.  status monitor gpp editor
           6.  tl1gpp editor
           Quit
```
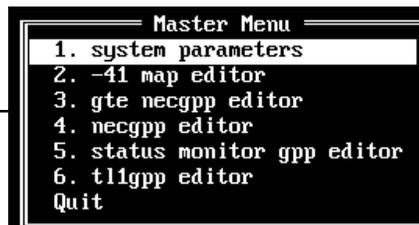
WARNING: *Always exit the program cleanly. This means that you must select the* Quit *option from the Master Menu whenever you want to leave the T/Shell program. NEVER turn off the computer without properly exiting the program. Doing so could corrupt the data files.*

4. If you wish to change the system parameters, highlight *System Parameters* and press Enter.

    The System Parameters window appears. It lets you configure the system for LCD or color mode, menu verification, and pulse or tone dialing. Refer to the **System Parameters** section of this chapter. When you are finished, the Master Menu appears.

5. At the Master Menu, highlight the *Status Monitor GPP Editor* option.

6. Press Enter. The GPP Module menu appears:


```
            ══ GPP Module ══
      gpp System definition
      gpp Data path
      gpp Parameters
      Terminal
      Quit
```
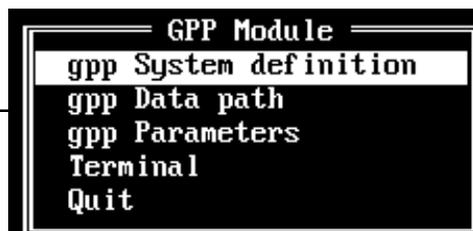
From this menu, you can fully interact with the T/Shell software. (A brief description of each option on the TL1 GPP Module menu appears below.)

7. Highlight an option.

CONTINUED . . .

46502-0999 <90-00021>

8. Press Enter.

9. Go the the chapter that explains the option you selected.

GPP System Definition - Does the following:

♦ Creates T/Shell GPP configurations that define how the 46062 GPP operates.

♦ Uploads and downloads configurations between the 46502 Status Monitor GPP Editor and the 46062 GPP.

♦ Generates reports about configurations.

GPP Data Path - Sets the DOS path where T/Shell configuration files created by the program will be stored.

GPP Parameters - Does the following:

♦ Sets the communications parameters for uploading and downloading T/Shell configurations between the 46502 Status Monitor GPP Editor and the 46062 GPP.

♦ Specifies where to store reports on configurations on your computer.

Terminal - Allows you to use a terminal emulator program to communicate with devices, such as the 46062 GPP, that have a terminal interface.

Quit - Returns you to the T/Shell Master Menu.

F1 Command Key - Displays the product name, version, and product number of the software.

SYSTEM PARAMETERS

After you select the System Parameters option from the Master Menu, the System Parameters window appears. It lets you configure the system for the following:

♦ LCD or color mode

♦ Menu verification

♦ Pulse or tone dialing

Here is the System Parameters window:
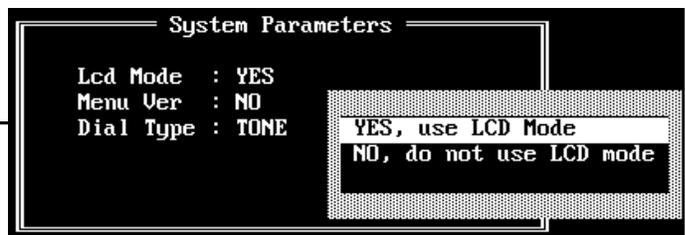
To change the parameters:

1. Use the Tab key to select the desired value.

2. Press Enter.

If you do not want to change a value at a particular field, press Enter to advance to the next field.

If you have changed some fields and all the remaining fields are acceptable, press F8 to save the changes.

At the last field (Dial Type), if you change the value, press Enter to save all changes to the system parameters. If you do not change the value of the dial type, press Enter or F8 to save any other changes to the system parameters.

NOTE: *If you change the LCD mode, you must exit the program to DOS and restart the T/Shell program.*

Here are descriptions of the System Parameters options:

LCD Mode - If you are using a monochrome monitor or a laptop computer with a monochrome LCD display, select *YES, use LCD mode.* If you are using a color monitor, select *NO, do not use LCD mode.* This field defaults to NO, do not use LCD mode.

Menu Ver - The Menu Ver field allows you to configure the method of opening menu options when using hot keys. A hot key is a specific key that can select a menu option. Selecting *YES, use menu verification* will force you to press Enter after you press a hot key. Selecting *NO, do not use menu verification* allows you to open an option just by pressing a hot key. This field defaults to NO, do not use menu verification.

Dial Type - If your computer is connected to a telephone line, select pulse or tone dialing. If your computer is not connected to a telephone line, it does not matter whether you select pulse or tone dialing. This field defaults to Tone Dialing.

GPP SYSTEM DEFINITION

The GPP System Definition option of the 46502 Status Monitor GPP Editor Module menu lets you do the following:

♦ Create T/Shell GPP configurations or select an existing one to edit.

♦ Upload and download configurations between the 46502 Status Monitor GPP Editor and the GPP database or to 46062 GPP memory.

♦ Generate reports about configurations.

NOTE: *In this manual "definition" and "configuration" are synonymous.*

Here is the GPP Editor screen with the GPP System Menu:

TO SELECT AN OPTION:

1. Highlight an option. For brief descriptions of the options, refer to the next section on ***Menu Overview.***

NOTE: *Whenever you access the GPP System menu from the GPP System Module menu, you must choose* Select GPP *first.*

2. Press Enter.

3. Go to the section of this chapter that explains the option that you selected.

MENU OVERVIEW

Here are brief descriptions of the command keys that you can use while you are in the GPP System menu:

F3 - **Terminal** - Enters the terminal emulator.

F9 - **Help** - Describes menu options.

F10/Esc - **Exit** - Exits to GPP System Module menu.

GPP SYSTEM DEFINITION

Here are brief descriptions of each option in the GPP System menu:

SELECT GPP

Opens a new file so that you can create a configuration or selects an existing configuration to edit.

EDIT PASSWORD/CONFIG/DESCRIPTORS

Lets you select the following:

- ♦ The GPP printer port address.
- ♦ GPP slave addresses.
- ♦ The password to access the configuration.
- ♦ A description to identify the configuration.

POLLING AND POINTS

Configures polling list entries and their corresponding alarm points.

TRANSFER

Provides utilities for the following:

- ♦ Downloading the configuration to a GPP database.
- ♦ Uploading a configuration from a GPP database.

REPORTS

Generates reports on the configuration.

UTILITIES

Copies the files associated with the configuration for the following purposes:

- ♦ To backup the files.
- ♦ To transfer the files to another computer.
- ♦ To transfer the files from another computer.
- ♦ To use the files as the basis for creating a new configuration.

DELETE GPP

Deletes the GPP configuration from the computer.

QUIT

Exits the GPP System Menu and returns to the GPP System Module menu.

SELECT GPP

The Select GPP option lets you create a T/Shell GPP configuration or select an existing one to edit.

Before you can use most of the options in the GPP System menu, you must either open a file to create a configuration or select an existing configuration.

Here is the GPP System screen with the GPP selection fields:

```
========================= STATUS MONITOR GPP EDITOR =========================
 ┌ GPP Selection ─────────────────────────────────┐  ┌ Password ┐
   System Name : SMGPP...     Type :

 ┌ GPP Network Configuration ───────────────────────────────────┐
   Address :         Slave Addresses :

 ┌ GPP Descriptors ────────────────┐
   Name         :
   Description :
                        ┌───────── GPP Menu ─────────┐
                        │  SELECT GPP                │
                        │  Edit password/config/descriptors │
                        │  Polling and points        │
                        │  Transfer                  │
                        │  Reports                   │
                        │  File utilities            │
                        │  Delete gpp                │
                        │  Quit                      │
                        └────────────────────────────┘

 Enter System Name.

 Ctrl-H=Edit Help, F10/Esc=Exit                              [DANTEL]
```

Below are the instructions for entering a system name.

SYSTEM NAME

A T/Shell GPP configuration must have a name. If there are existing configurations, a default box appears with their names.

CAUTION: *When you upload a GPP configuration, use a name other than one for an existing configuration. If a database has text errors, the GPP Editor corrects the errors by referring to an older copy of that database.*

To select an existing name:

1. Use the Tab key to highlight a name.
2. Press Enter.

3. If the configuration has a password, type it and press Enter. If there is no password, just press Enter. To create a password or to change an existing one, refer to the next section on ***Edit Password/Config/Descriptors.***

To create a new system name:

1. Enter a name.

   The name can have a maximum of eight characters. The name must use characters that form a valid DOS file name. You can use all alphabetic and numeric characters except those that are reserved by DOS, such as the period and space.

2. Press Enter.

3. The following question appears at the bottom left corner of the screen:

   Not there. Wish to add (Y/N)?

   Type **Y** to add the new name. If **N** is typed, you will be prompted for another name.

WARNING: *Refer to the* Utilities *section of this chapter for information on copying configurations. Do not use the DOS copy function.*

GPP Type

You must define the type of GPP you are using.

To define a new GPP type:

1. Enter a name.

   Use the Tab key to highlight S for a standard GPP or L for a large GPP.

2. Press Enter.

Password

NOTE: *A new GPP configuration does not require a password. If you add another GPP configuration, you must enter a password.*

1. Enter a name.

   The password can have a maximum of eight characters. You can use all alphabetic and numeric characters except those that are reserved by DOS, such as the period and space.

2. Press Enter.

WARNING: *Dantel cannot recover password-protected files.*

GPP SYSTEM DEFINITION

EDIT PASSWORD/CONFIG/DESCRIPTORS

The Edit Password/Config/Descriptors option lets you to create or change the following:

♦ A password to access the configuration.

♦ The GPP address.

♦ Slave GPP addresses.

♦ A description to identify the configuration.

Enter at least the date in the description field. You can also enter site and operator information in the name or description fields. The system name is not a good location for storing complicated information.

Here is the GPP System screen with the Edit GPP menu:

```
┌──────────────── STATUS MONITOR GPP EDITOR ────────────────┐
│                                                            │
│ ┌ GPP Selection ─────────────────────────┐ ┌ Password ┐   │
│   System Name : SMGPP        Type : Status Monitor (std)   │
│ ┌ GPP Network Configuration ──────────────────────────┐    │
│   Address : 1     Slave Addresses : 1                      │
│ ┌ GPP Descriptors ────────────────────────────────┐        │
│   Name        :                                            │
│   Description :                                            │
│              ┌──────── GPP Menu ────────┐                  │
│               Select gpp                                   │
│               EDIT PASSWORD/CONFIG/DESCRIPTORS             │
│               Polling and po┌──── Edit GPP ────┐           │
│               Transfer        edit Password              │
│               Reports         edit Address                │
│               File utilities  edit Slave addresses        │
│               Delete gpp      edit Descriptors            │
│               Quit            Quit                        │
│              └──────────────────────────┘                  │
│                                                            │
│ F10/Esc=Exit                                   [DANTEL]    │
└────────────────────────────────────────────────────────────┘
```

Below are the instructions for entering a password, a GPP address, and a description of the system configuration.

EDIT PASSWORD

This option lets you create or change a password to access the configuration.

To create or change a password:

1. Highlight *Edit Password.*

2. Press Enter.

3. Type in up to eight characters.

4. Press Enter.

CONTINUED . . .

5. Retype the password. This is a safety feature to insure that you typed the password correctly the first time.

6. Press Enter.

EDIT ADDRESS

This is the GPP address. The default address is 1.

To change the address:

1. Highlight *Edit Address.*

2. Press Enter.

3. Type in the address. Acceptable values are 1-255.

4. Press Enter.

EDIT SLAVE ADDRESSES

These are network GPP slave address. The main address is automatically added since it may become a slave.

To add or change slave addresses:

1. Highlight *Edit Slave Addresses.*

2. Press Enter.

3. Type in the slave addresses. Acceptable values are 1-255. Separate each address with a comma. Blocks of addresses can be separated by putting a dash between the first and last addresses of the block.

4. Press Enter.

EDIT DESCRIPTORS

Entering text in this field is optional. You can enter text to name the GPP and remind yourself about the purpose or function of the GPP configuration.

To create or change descriptors:

1. Highlight *Edit Descriptors.*

2. Press Enter.

3. Type in a GPP name. Do not exceed 40 characters.

4. Press Enter.

5. Type in a GPP description. Do not exceed 40 characters.

6. Press Enter.

POLLING AND POINTS

This option lets you configure GPP polling list entries and their alarm points. Below is the GPP Polling List screen:

```
================ STATUS MONITOR GPP EDITOR ================
┌ GPP Selection ──────────────────────────────┐  ┌ Password ┐
   System Name : SMGPP         Type : Status Monitor (std)

 Gpp Polling   :  Polling List


 Entry    MAP       Display          Poll Count:   1

   1      1..         1
   2
   3
   4
   5
   6
   7
   8
   9
  10


 Enter MAP Number

 F1=GOTO, F2=Point Definition, F3=Blank, F8=Exit and Save      [DANTEL]
```

To configure a polling list:

1. In the *MAP* field, type in the MAP address. Acceptable values are 1-128.

   Here are brief descriptions of the command keys that you can use while the cursor is in the *Addr* field:

   F1 - **GOTO** - Goes directly to any entry.

   F2 - **Point Definition** - Sets MAP points for each entry. Refer to ***MAP POINT CONFIGURATION/To edit MAP points*** later in this section.

   F3 - **Blank** - Deletes the current entry.

   F8 - **Exit and Save** - Saves the polling list and returns to entry *MAP* field.

2. Press Enter.

3. In the *Display* field, type in the display number. Valid entries are 1-64.

   It is important to understand the different ways in which different DCPF devices report their alarm displays. Most DCPF devices that the Status Monitor will poll report up to 32 displays of alarms for each address entered in step 1. Some devices report up to 64 displays of alarms with displays 1-32 reporting as one address and displays 33-64 as another address. With these devices, configure the Status Monitor to poll the first 32 displays as the first address and displays 1-32. The second group of 32 displays is configured as the second address but still displays 1-32. Still others, (a Multiple Alarm Processor equipped

with 46641 Firmware, for example), are capable of reporting up to 64 displays of alarm information per DCPF address. The 46001 Status Monitor is capable of polling 64 displays from each DCPF address in its polling list. Refer to the Operation Manual specific to the device you are polling for details on that device's capabilities.

4. Repeat steps 1-3 to configure additional GPP entries.

NOTE: *The number of GPP entries vary depending on which GPP you define. If you define a Standard GPP you can define up to 128 entries in the polling list with Device Failure entries at 129 and 130 and the Slave Failure at 131. If you define a Large GPP you can define up to 512 entries in the polling list with Device failure entries at 513 to 520 and the Slave Fail entry at 521.*

5. When you finish, press F8 to save the information.

MAP POINT CONFIGURATION

To edit MAP points:

1. In the *MAP* field, select a MAP address.

NOTE: *If you do not type in the address and display number for an entry, you cannot edit MAP points.*

2. Press F2. The Alarm Points screen pops up.


```
                    STATUS MONITOR GPP EDITOR
 ┌ GPP Selection ──────────────────────────┐    ┌ Password ┐
   System Name : SMGPP       Type : Status Monitor (std)

 Gpp Polling    :  Points Definition
 Entry : 1              MAP : 1     Display : 1     Point : 1

   Point    Scope   Level   CTRL1   CTRL2   Description

     1        G       A       1       2     FIRE/SMOKE ALARM
     2        G       B       2       0     MISC ALARMS
     3        G       A       3       4     CHARGER FAIL
     4        G       A       4       0     LOW BATTERY VOLT
     5        L       B       1       2     HIGH TEMPERATURE
     6        L       A       2       0     FIBER W/E FAIL
     7        G       B       3       4     FIBER E/W FAIL
     8        G       C       4       5     FIBER MISC ALARM
     9        L       D       0       0     SPARE
    10        L       A       6       7     DS3 MUX FAIL


 Enter Scope:  G)lobal  L)ocal
F1=GOTO,F3=Blank,F5=Range,F6=Read,F8=Save,F9=Help,AltF3-6=Block,F10/Esc=Exit
```

3. In the *Scope* field, type the alarm point scope category. Press **G** for the global category and **L** for the local category.

4. Press Enter.

5. In the *Level* field, type in the alarm level: A, B, C or D.

6. Press Enter.

CONTINUED . . .

NOTE: *Steps 7-10 are optional.*

7. In the *Ctrl1* field, type in the first control point. Acceptable values are 1-64.

8. Press Enter.

9. In the *Ctrl2* field, type in the second control point. Acceptable values are 1-64.

10. Press Enter.

11. Type in the description of the alarm point. Do not exceed 30 characters.

12. Press Enter.

13. Repeat steps 3-12 to configure other alarm points.

14. When you finish, press F8 to save the information.

SCOPE FIELD COMMAND KEYS

Here are brief descriptions of the command keys that you can use while the cursor is in the *Scope* field.
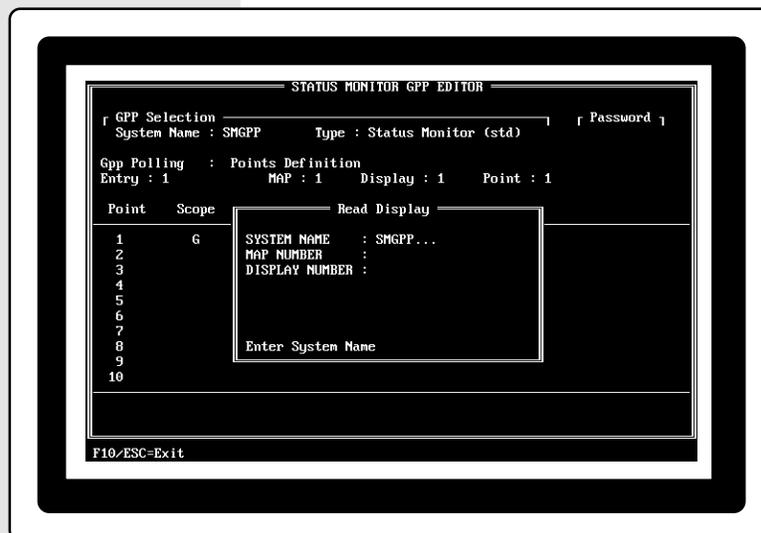
F1 - **GOTO** - Goes directly to a specific point number.

F3 - **Blank** - Deletes the current point.

F5 - **Range Functions** - Lets you specify a range of points to:

♦ Edit specific attributes of points.

♦ Copy attributes of one point to a range of points.

♦ Delete one point or a range of points.

F6 - **Read** - Reads point definitions of one database polling list and copies them into the current database polling list. When you press F6, the Read Points window pops up:

```
┌──────────────── STATUS MONITOR GPP EDITOR ────────────────┐
│ ┌ GPP Selection ───────────────────────┐   ┌ Password ┐   │
│   System Name : SMGPP     Type : Status Monitor (std)     │
│                                                           │
│ Gpp Polling   :  Points Definition                        │
│ Entry : 1          MAP : 1    Display : 1    Point : 1     │
│                                                           │
│ Point    Scope  ┌──────── Read Display ────────┐          │
│                                                           │
│   1        G     SYSTEM NAME    : SMGPP...                 │
│   2              MAP NUMBER     :                          │
│   3              DISPLAY NUMBER :                          │
│   4                                                       │
│   5                                                       │
│   6                                                       │
│   7                                                       │
│   8              Enter System Name                        │
│   9                                                       │
│  10                                                       │
│                                                           │
│ F10/ESC=Exit                                              │
└───────────────────────────────────────────────────────────┘
```

To read point definitions:

1. Type in the name of the system you are reading from. The current system name is the default.

2. Press Enter.

3. Type in the address of the system you are reading from. Acceptable values are 1-255.

4. Press Enter.

5. Type in the display number of the system you are reading from. Acceptable values are 1-64.
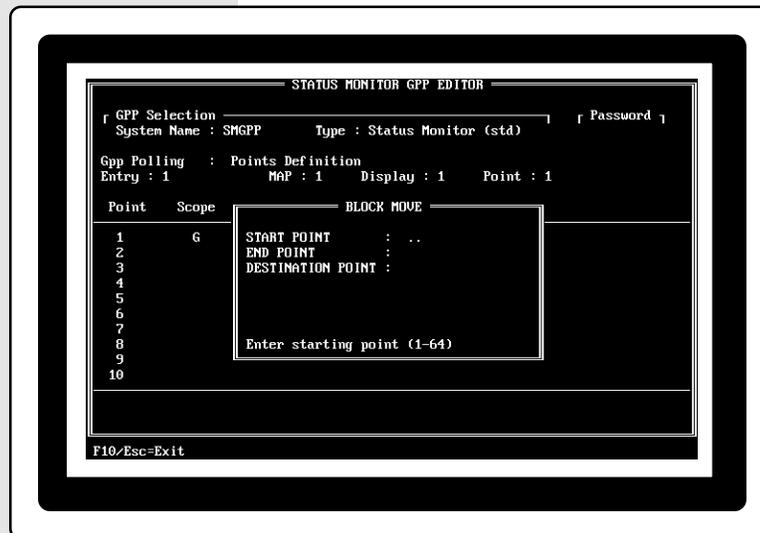
6. Press Enter.

   F8 - **Save** - Saves point definitions and returns to the polling list.

   F9 - **Help** - Displays a help screen.

   Alt-F3 - **Delete Point** - Deletes current point. All points below the deleted point move up one position.

   Alt-F4 - **Insert Point** - Inserts one point above the current point.

   Alt-F5 - **Block Move** - When you press Alt-F5, the Block Move window pops up:

```
╔══════════════════ STATUS MONITOR GPP EDITOR ══════════════════╗

   ┌ GPP Selection ──────────────────────────┐   ┌ Password ┐
     System Name : SMGPP        Type : Status Monitor (std)

   Gpp Polling    :   Points Definition
   Entry : 1            MAP : 1     Display : 1     Point : 1

   Point     Scope ┌──────────── BLOCK MOVE ────────────┐

     1         G     START POINT       :  ..
     2               END POINT         :
     3               DESTINATION POINT :
     4
     5
     6
     7
     8               Enter starting point (1-64)
     9
    10


   F10/Esc=Exit
```

To move a block:

1. Type in the first point of the block. Acceptable values are 1-64.

2. Press Enter.

3. Type in the last point of the block. Acceptable values are 1-64.
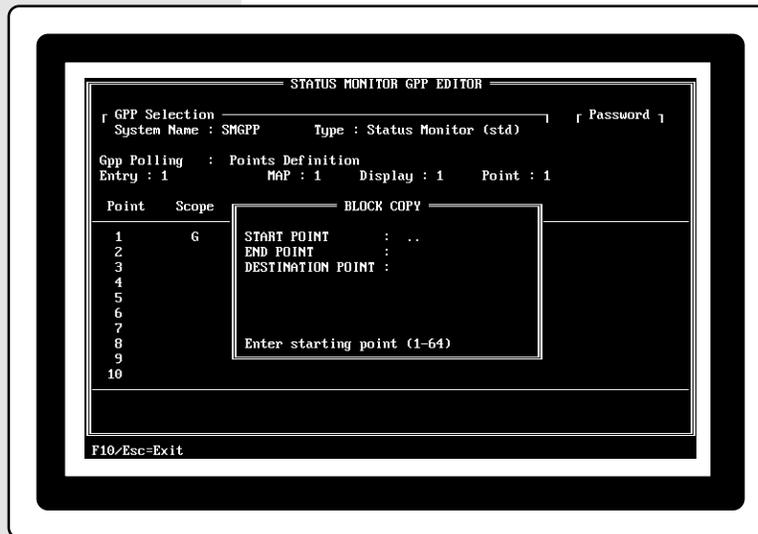
4. Press Enter.

CONTINUED . . .

5. Enter the first point of the new block location. Acceptable values are 1-64.

NOTE: *The selected destination block must accommodate the entire source block. For example, a block from points 1-10 cannot be moved to a block starting at point 60, because the maximum block is 64.*

---

6. Press Enter.

    Alt-F6 -   **Block Copy** - When you press Alt-F5, the Block Copy window pops up:

```
�═════════════════ STATUS MONITOR GPP EDITOR ═══════════════════
 ┌ GPP Selection ─────────────────────────────  ┌ Password ┐
   System Name : SMGPP        Type : Status Monitor (std)

 Gpp Polling   :  Points Definition
 Entry : 1            MAP : 1    Display : 1     Point : 1

 Point    Scope          ═══════ BLOCK COPY ═══════
   1        G       START POINT      : ..
   2                END POINT        :
   3                DESTINATION POINT :
   4
   5
   6
   7
   8                Enter starting point (1-64)
   9
  10

 F10/Esc=Exit
```

To copy a block:

1. Type in the first point of the block. Acceptable values are 1-64.

2. Press Enter.

3. Type in the last point of the block. Acceptable values are 1-64.

4. Press Enter.

5. Enter the first point of the new block location. Acceptable values are 1-64.

NOTE: *The selected destination block must accommodate the entire source block. For example, a block from points 1-10 cannot be moved to a block starting at point 60, because the maximum block is 64.*

---

6. Press Enter.

    Alt-F7 - **Previous Entry** -   Goes to previous entry in the selected field.

    Alt-F8 - **Next Entry** - Goes to next entry in the selected field.

CONTINUED . . .

GPP SYSTEM DEFINITION

Alt-F9 - **Show** - Displays a list of all entries you made in the selected field.

F10/Esc - **Exit** - Returns to the *GPP Polling* Display screen.

NOTE: *When you press F10/Esc, the alarm point configuration is not saved. Press F8 to save the information.*

TRANSFER

The Transfer option lets you do the following:

♦ Download the configuration to a GPP database.

♦ Upload a configuration from a GPP database.

♦ Download a GPP configuration to 46062 GPP memory.

♦ Request a GPP database to identify itself.

Here is the GPP Editor screen with the Transfer window:

```
========================= STATUS MONITOR GPP EDITOR =========================

 ┌ GPP Selection ──────────────────────────────────   ┌ Password ┐
   System Name : SMGPP        Type : Status Monitor (std)
 ┌ GPP Network Configuration ──────────────────────────────────────────
 ┌─────────────────────── GPP TRANSFER ────────────────────────
 ┌     Option : .
       Password :




       D)ownload to GPP, U)pload from GPP
 ──────────────────────────────────────────────────────────────



 F1=Dial, F2=Hang Up, AF9=Edit Parameters, F10/Esc=Exit          [DANTEL]
```

Before beginning the transfer process:

1. Press Alt-F9 to check the communications parameters. Refer to the chapter on *Parameters* for descriptions of the parameters.

2. Check the GPP Configuration address. The address is shown in the GPP Editor screen. Press F10 to exit the Transfer window and display the full GPP Editor screen. The address must be the same as the default address of the GPP.

To transfer files over a modem:

1. Press F1. A Hayes-compatible modem is required. The dial type (pulse or tone) is selected from the *System Parameters* option of the Master Menu.

2. Enter the telephone number.

3. Press Enter.

4. After the other end answers, you may upload or download a configuration. See instructions below.

5. When you finish uploading or downloading the configuration files, press F2 to hang up the modem.

DOWNLOADING THE GPP CONFIGURATION

To download the configuration:

1. At the *Option* field, type **D**.

2. Press Enter.

3. Type in your password (**not** the Status Monitor GPP Editor password) and press Enter. If there is no password, just press Enter.

NOTE: *Press Esc to abort a download in progress. Aborted downloads partially configure the GPP and disable polling.*

UPLOADING A GPP CONFIGURATION

NOTE: *If you upload a GPP configuration into an existing file, the new configuration overwrites all previously saved data in that file.*

A successful upload requires no duplicate addresses in an existing GPP database. Ensure configuration integrity by using the CON keyboard/printer syntax command.

To upload a configuration:

1. At the *Option* field, type **U**.

2. Press Enter.

3. A warning appears advising you that the data you are about to upload will overwrite any configuration data in the computer. Type **Y** and press Enter to continue or press Enter to discontinue the operation. If you are about to overwrite a configuration that you want to keep, exit the Transfer window, choose *Select GPP* from the GPP System Menu, and create a new configuration.
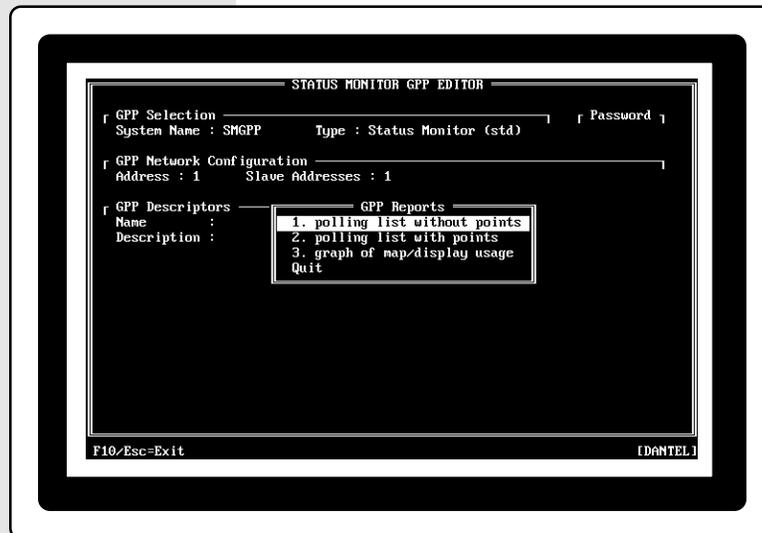
4. Press Enter.

CONTINUED . . .

GPP SYSTEM DEFINITION

5. Type in your local GPP password (***not*** the Status Monitor GPP Editor password) and press Enter. If there is no password, just press Enter.

NOTE: *Press Esc to abort an upload in progress.*

REPORTS

The Reports option lets you generate reports on the GPP database. Most of the reports can be sent to either the screen, a file or a printer.

Here is the GPP Editor screen with the GPP Reports menu:


```
                        STATUS MONITOR GPP EDITOR
 ┌ GPP Selection                                      ┌ Password ┐
   System Name : SMGPP        Type : Status Monitor (std)
 ┌ GPP Network Configuration
   Address : 1     Slave Addresses : 1
 ┌ GPP Descriptors ──────── GPP Reports ──────
   Name        :      │ 1. polling list without points │
   Description :      │ 2. polling list with points    │
                      │ 3. graph of map/display usage  │
                      │ Quit                           │

 F10/Esc=Exit                                       [DANTEL]
```

To select an option:

1. Highlight an option. A brief description of each option appears below.

2. Press Enter.

3. Go to the subsection that explains the option you selected.

Polling List Without Points - Contains an output of all defined polling list entries.

Polling List With Points - Contains an output of all defined polling list entries and their points.

Graph of MAP/Display Usage - Displays a graph of the defined polling list on the screen.

To generate a report:

1.　In the *Output to* field, type **F** for file, **P** for printer, or **S** for screen.

2.　Press Enter.

CAUTION:　*When a printer is the destination, an error message will appear if there is no printer connected to your computer or if the printer is not turned on. If the error message appears, you must press any key to continue. The computer exits the program and returns to the Master Menu.*

When a file is selected as the destination of a report, you are prompted for a DOS file name. If no file name extension is entered, the extension .LST is automatically appended. The file will be sent to the destination specified in the *Rpt Path* of the *Parameters* option. Refer to the **Parameters** chapter.

Here is an example of the report on the screen:

```
════════════════════ STATUS MONITOR GPP EDITOR ═══════════════════
Sys : SMGPP                                                Page   1
Entry MAP Display
     1    1    1




Press any key to return to menu                          [DANTEL]
```

POLLING LIST WITH POINTS

To generate a report:

1.　In the *Output to* field, type **F** for file, **P** for printer, or **S** for screen.

2.　Press Enter.

CAUTION: *When a printer is the destination, an error message will appear if there is no printer connected to your computer or if the printer is not turned on. If the error message appears, you must press any key to continue. The computer exits the program and returns to the Master Menu.*

When you print the report to your printer, you are prompted with a question asking:

Do a form feed after the points of each polling list entry (Y/N)

If you press **Y** (Yes), then press Enter, points for each polling list print on separate pages. **N** (No) is the default; when you press Enter points print in a continuous stream with a two-line break between polling list entries.

NOTE: *Before printing form feeds, ensure the first line of print is at the very top of the page. Reports print on all 66 lines of a standard 8 1/2 by 11 inch page.*

When a file is selected as the destination of a report, you are prompted for a DOS file name. If no file name extension is entered, the extension .LST is automatically appended. The file will be sent to the destination specified in the *Rpt Path* of the *Parameters* option. Refer to the **Parameters** chapter.

Here is an example of the report on the screen:

```
═══════════════ STATUS MONITOR GPP EDITOR ═══════════════
Sys : SMGPP                                        Page   1
  Ent  MAP  Dis   Pt Sco Lev CTL1 CTL2 Description
    1    1    1    1 G   A    1    2  FIRE/SMOKE ALARM




Press any key to return to menu                    [DANTEL]
```

The top lines in the report list the system entry number, address, display and the point number. The report lists all attributes of defined points.

GRAPH OF MAP/DISPLAY USAGE

You can display the defined GPP polling list on the screen. You cannot print the graph to a printer or save it to a file.

FILE UTILITIES

The Utilities option lets you configure failure display reporting, convert old database files to T/Shell format and copy the files associated with the configuration to:

- ♦ Backup the files.
- ♦ Transfer the files to another computer.
- ♦ Transfer the files from another computer.
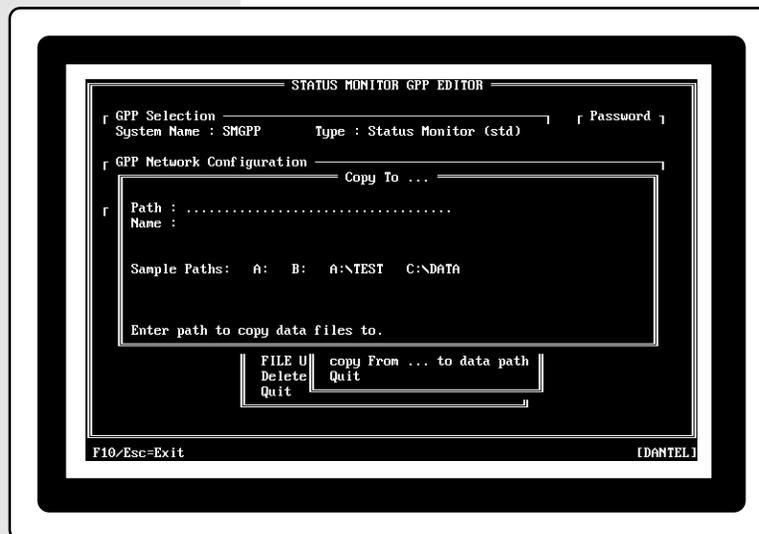- ♦ Change database filenames when copying files.

COPY FILES

1. In the Utilities menu, highlight *Copy Files*.
2. Press Enter.

COPY TO

To copy a file to another location:

1. Highlight *Copy From Data Path To . . .*
2. Press Enter.

   Here is the Copy To ... window:

```
┌──────────────────── STATUS MONITOR GPP EDITOR ────────────────────┐
│                                                                    │
│ ┌ GPP Selection ─────────────────────┐    ┌ Password ┐            │
│   System Name : SMGPP       Type : Status Monitor (std)           │
│ ┌ GPP Network Configuration ─────────────────────────────┐        │
│ │              ┌────────── Copy To ... ──────────┐        │        │
│ │              │ Path : ........................... │      │        │
│ │              │ Name :                            │      │        │
│ │              │                                   │      │        │
│ │              │ Sample Paths:   A:   B:   A:\TEST  C:\DATA │       │
│ │              │                                   │      │        │
│ │              │ Enter path to copy data files to. │      │        │
│ │              └───────────────────────────────────┘      │        │
│ │              ┌ FILE U ┐┌ copy From ... to data path ┐   │        │
│ │              │ Delete ││ Quit                       │   │        │
│ │              │ Quit   │└────────────────────────────┘   │        │
│ │              └────────┘                                 │        │
│ └─────────────────────────────────────────────────────────┘        │
│ F10/Esc=Exit                                          [DANTEL]      │
└────────────────────────────────────────────────────────────────────┘
```

3. In the *Path* field, enter the destination drive and path where the configuration is to be copied.
4. Press Enter.
5. The *Name* field defaults to the current name. To change the name, type a new one.

CONTINUED . . .

NOTE: *When copying a configuration from one location to another, you do not have to rename the configuration. But if you copy a configuration from one location to the* same *location (such as to use a configuration as the basis for creating a new one), you must rename the configuration.*

6.   Press Enter.

7.   To start the copying process, press Enter.

NOTE: *The configuration files are being copied, not moved; therefore, the files being copied are not being erased from their original location.*

COPY FROM

To copy a file from another location:

1.   Highlight Copy From ... To Data Path.

2.   Press Enter.

Here is the Copy From ... window:

```
╔══════════════════════════════════════════════════╗
║            STATUS MONITOR GPP EDITOR               ║
║  ┌ GPP Selection ─────────────        ┌ Password ┐ ║
║    System Name : SMGPP      Type : Status Monitor (std)  ║
║  ┌ GPP Network Configuration ─────────────────────┐ ║
║  │                ═══ Copy From ... ═══            │ ║
║  │  Path    : ...............................     │ ║
║  │  Name    :                                     │ ║
║  │  Password :                                    │ ║
║  │  New Name :                                    │ ║
║  │                                                │ ║
║  │  Sample Paths:   A:   B:   A:\TEST   C:\DATA    │ ║
║  │                                                │ ║
║  │  Enter path to copy data files from.           │ ║
║  │                  ┌ Delete ┐ Quit               │ ║
║  │                  │ Quit   │                     │ ║
║  └────────────────────────────────────────────────┘ ║
║  F10/Esc=Exit                          [DANTEL]    ║
╚══════════════════════════════════════════════════╝
```

3.   In the *Path* field, enter the drive and path from which you want to copy a configuration.

4.   Press Enter.

5.   In the *Name* field, enter the system name of the configuration to be copied.

6.   Press Enter.

7.   In the *Password* field, enter the system name's password if there is one.

CONTINUED . . .

8. Press Enter.

9. The *New Name* field defaults to the same name as shown in the Name field. To change the name, type a new one.

NOTE: *When copying a configuration from one location to another, you do not have to rename the configuration. But if you copy a configuration from one location to the* **same** *location (such as to use a configuration as the basis for creating a new one), you must rename the configuration.*

---

10. Press Enter.

11. To start the copying process, press Enter.

NOTE: *The configuration files are being copied, not moved; therefore, the files being copied are not being erased from their original location.*

ARCHIVE FILES

Archive Files copies and archives data files from a hard disk to floppy disks. Archived data cannot be edited or downloaded. You must restore archived data before you can use it.

NOTE: *You cannot copy multiple GPP system data files to a single floppy. You must use a separate disk for each GPP system.*

MAKE ARCHIVE

To create an archived file:

1. Insert a blank diskette into the drive.

2. Highlight *Make Archive.*

3. Press Enter.

Here is the Data Files Archive window:

```
╔═══════════════════════════════════════════════════╗
║         STATUS MONITOR GPP EDITOR                  ║
║ ┌ GPP Selection ──────────────┐     ┌ Password ┐  ║
║   System Name : SMGPP      Type : Status Monitor (std)
║ ┌ GPP Network Configuration ──────────────────┐   ║
║   Address : 1      Slave Addresses : 1            ║
║ ┌ G┌──────────── Data Files Archive ──────────┐  ║
║   N│                                             │  ║
║   D│ Drive to archive to : .                     │  ║
║    │ Description        :                         │  ║
║    │                                             │  ║
║    │                                             │  ║
║    │                                             │  ║
║    │                                             │  ║
║    │                                             │  ║
║    │ Enter the drive to archive to (A, B)        │  ║
║ Up Arrow = Previous Field, F10/Esc = First Field  ║
╚═══════════════════════════════════════════════════╝
```
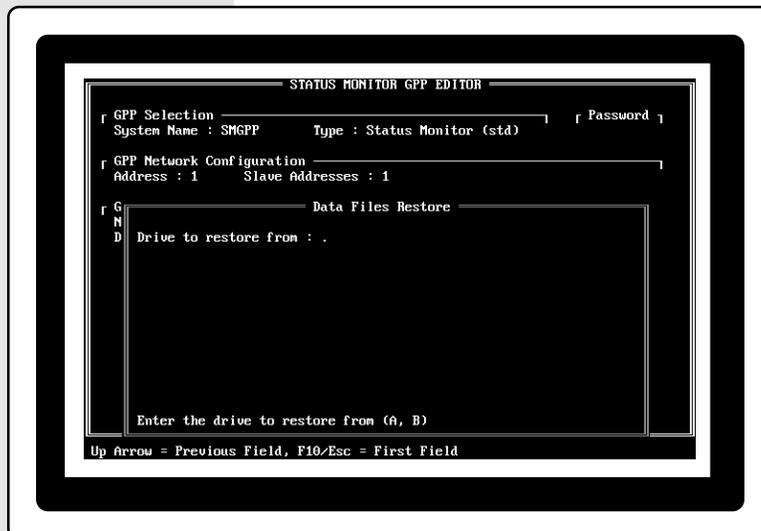
4. In the *Drive to Archive To* field, enter the drive where the configuration is to be archived.

5. Press Enter.

6. Enter a description for the archived file. Do not exceed 40 characters.

RESTORE ARCHIVE

To restore an archived file:

1. Highlight *Restore Archive.*

2. Press Enter.

Here is the Data Files Restore window:

```
╔═══════════════════════════════════════════════════╗
║         STATUS MONITOR GPP EDITOR                  ║
║ ┌ GPP Selection ──────────────┐     ┌ Password ┐  ║
║   System Name : SMGPP      Type : Status Monitor (std)
║ ┌ GPP Network Configuration ──────────────────┐   ║
║   Address : 1      Slave Addresses : 1            ║
║ ┌ G┌──────────── Data Files Restore ──────────┐  ║
║   N│                                             │  ║
║   D│ Drive to restore from : .                   │  ║
║    │                                             │  ║
║    │                                             │  ║
║    │                                             │  ║
║    │                                             │  ║
║    │                                             │  ║
║    │ Enter the drive to restore from (A, B)      │  ║
║ Up Arrow = Previous Field, F10/Esc = First Field  ║
╚═══════════════════════════════════════════════════╝
```

3. In the *Drive to Restore From* field, enter the drive from which you want to restore an archived file.

4. Press Enter.

DELETE GPP

Here is the screen:

```
┌──────────────────── STATUS MONITOR GPP EDITOR ────────────────────┐
│                                                                    │
│ ┌ GPP Selection ─────────────────────────┐      ┌ Password ┐       │
│   System Name : SMGPP        Type : Status Monitor (std)           │
│                                                                    │
│ ┌ GPP Network Configuration ────────────────────────────────┐      │
│   Address : 1     Slave Addresses : 1                              │
│                                                                    │
│ ┌ GPP Descriptors ─────────────────────────────────────┐          │
│   Name        :                                                    │
│   Description :                                                    │
│                  ┌──────────── GPP Menu ─────────────┐             │
│                    Select gpp                                      │
│                    Edit password/config/descriptors               │
│                    Polling and points                             │
│                    Transfer                                        │
│                    Reports                                         │
│                    File utilities                                 │
│                    DELETE GPP                                      │
│                    Quit                                            │
│                  └───────────────────────────────────┘            │
│ Delete the GPP "SMGPP" (Y/N)?                                      │
│                                                                    │
│                                                  [DANTEL]          │
└────────────────────────────────────────────────────────────────────┘
```

When initiating this command, a warning message appears at the bottom left corner of the screen. An example of the warning message is shown below.

Delete the System "SMGPP" (Y/N)?

Delete the configuration by typing **Y** (Yes). If you do not want to delete the configuration, type **N** (No).

WARNING: *Do not use this command unless you are positive that you will never need the configuration again. This command erases all references to the configuration.*

GPP DATA PATH

The GPP Data Path option of the GPP Module menu lets you specify the drive and directory path where the T/Shell database configuration files will be stored. This is particularly useful for running the program on a dual diskette system. Such a setup might use Drive A for the program disk and Drive B for the disk that holds the configuration files. This type of setup allows you to access different configurations easily by simply swapping disks.

Here is the GPP Edit screen with the Edit Data Path windows:

```
┌─────────────────────── STATUS MONITOR GPP EDITOR ───────────────────────┐
│              ┌───────────── Edit GPP Data Path ─────────────┐            │
│              │ Data Path : C:\TSHELL......................   │            │
│              │                                               │            │
│              │ Disk Info ──>  Bytes Available: 1000243200     │            │
│              │                                               │            │
│              │ Enter path to data files                       │            │
│              └───────────────────────────────────────────────┘            │
│              ┌──────────┐                                                  │
│              │ SMGPP    │                                                  │
│              └──────────┘                                                  │
│                                                                           │
│  F8=Save Path, F10/Esc=Exit (no save)                          [DANTEL]   │
└───────────────────────────────────────────────────────────────────────────┘
```

The current data path is shown in the upper window. The lower window displays any database configurations that are stored at the current path.

To change the data path:

1.   Type the new path.

Sample path specifications are shown below:

    B:

    C:\TSHELL\GPP\DATA

    C:\TSHELL\GPP\TEST

NOTE: *If you specify a drive without a path (for example A: or C:), the current path of that drive is loaded into the Data Path parameter.*

2.   Press Enter.

3.   Press F8 to save the new path.

PARAMETERS

The GPP Editor Parameters option of the GPP Module menu allows you to select the communications parameters for uploading and downloading GPP database configurations. You also can specify where to store reports on database configurations on your computer.

Here is the GPP Parameters window:

```
┌──────────────────────────────────────────────────┐
│ ┌──────────────────────────────────────────────┐ │
│ │                                              │ │
│ │  ═══════STATUS MONITOR GPP EDITOR Parameters═══│ │
│ │                                              │ │
│ │      Com port  : 1                           │ │
│ │      Baud      : 9600                        │ │
│ │      Parity    : None                        │ │
│ │      Stop Bits : 1                           │ │
│ │                                              │ │
│ │      Timeout   : 2000                        │ │
│ │                                              │ │
│ │      Resend Max: 20                          │ │
│ │                                              │ │
│ │                                              │ │
│ │      Rpt Path  : C:\TSHELL                   │ │
│ │                                              │ │
│ │                                              │ │
│ │                                              │ │
│ │                                              │ │
│ │      Valid com ports are : 1-4               │ │
│ │                                              │ │
│ │ F8=Save, F9=Help, F10/Esc=Exit      [DANTEL] │ │
│ └──────────────────────────────────────────────┘ │
└──────────────────────────────────────────────────┘
```

To change the parameters:

1. Enter the desired value.

2. Press Enter.

    If you do not want to change a value at a particular field, press Enter to advance to the next field.

    If you have changed some fields and all the remaining fields are acceptable, press F8 to save the changes and return to the GPP Editor Module menu.

    At the last field (Rpt Path), if you change the value, press Enter to save all changes to the system parameters. If you do not change the value of the report path, press Enter or F8 to save any other changes to the system parameters. The GPP Editor Module menu appears.

    Here are descriptions of each parameter:

    Com Port - Specifies which communications port to use when uploading or downloading database configurations. Acceptable entries are 1-4. This field defaults to 1.

WARNING: *If you specify a communications port that your computer does not have, the T/Shell program locks up when the computer tries to use that port and you must reboot your computer.*

Baud - Sets the baud rate for the communications port. Acceptable baud rates are 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19 (19,200) and 38 (38,400). This field defaults to 9600.

Parity - Sets the parity for the communications port.   Acceptable values are E)ven, O)dd, N)one. This field defaults to N)one.

Stop Bits - Sets the number of stop bits for the communications port. Acceptable values are 1 or 2. This field defaults to 1.

Timeout - Sets the amount of time in milliseconds that the computer waits for the device at the other end of the communications line to acknowledge that it is ready to receive data. Acceptable values are 50 - 9999 milliseconds. This field defaults to 2000 milliseconds (2 seconds).

Resend Max - Specifies the number of resends that the computer attempts before declaring a "Com Port Error" when trying to upload or download data. Acceptable values are 1 - 100. This field defaults to 20.

Rpt Path - Specifies the drive and directory that the computer is to use to store any reports that are sent to a file. For more information, see the ***Reports*** section of the ***GPP System Definition*** chapter. This field defaults to the current directory.

TERMINAL EMULATOR

The Terminal option of the GPP Module menu activates the terminal emulator that imitates a dumb terminal's monitor. The purpose of this mode is to allow direct communications with another device.

The terminal emulator screen is blank except for the bottom line, which displays the available command keys. Here is the screen:


```
F1=Cnf,F2=Cap,F3=O/Cap,F4=C/Cap,F5=Ld Cnf,F7=Xfer,F8=Debug,F9=hlp,F10=Ext
```

Below are brief descriptions of the function of each command key. More detailed information is provided in other sections of this chapter.

F1 - **Edit Terminal Configuration (Cnf)** - Allows you to configure how the terminal emulator communicates with another device. It also lets you program function keys to playback a lengthy string of characters that may constitute a command, an often used phrase, etc.

F2 - **Toggle Capture File (Cap)** - Starts and stops the capturing of data received by the terminal. The data then can be reviewed at a later time.

F3 - **Open Capture File (O/Cap)** - Opens a capture file.

F4 - **Close Capture File (C/Cap)** - Closes a capture file.

F5 - **Load Configuration File (Ld Cnf)** - Changes the current terminal configuration to a new configuration.

F7 - **Download File Transmission (Xfer)** - Transfers (downloads) a DOS file from your computer to another device.

F8 - **Toggle Protocol Analyzer/Debug (Debug)** - Activates and deactivates a protocol analyzer for troubleshooting problems of the device connected to the terminal emulator.

F9 - **Help Message (hlp)** - Displays on-line help.

F10 - **Exit Terminal Emulator (Ext)** - Exits the terminal mode and returns to the GPP Module menu.

EDIT TERMINAL CONFIGURATION

Press F1 from the main terminal emulator screen to select the terminal configuration option. The Edit Configuration window appears:

```
                      Edit Configuration

  T)erminal Attrib, S)hift Fxx, C)trl Fxx, A)lt Fxx, F)inish (saves), Q)uit :
```

From this window, you can do the following:

♦ Change the terminal's configuration for communicating with another device. See **Terminal Attributes** in this section.

♦ Program the function keys. See **Shift Fxx, Ctrl Fxx,** and **Alt Fxx** in this section.

♦ Create a file to save the changes made in the two items above. See **Finish** in this section.

To change the terminal configuration:

1. Type **T.** The terminal configuration window appears:

```
                    Terminal Configuration
         Com port  : 1
         Baud      : 1200
         Word      : 8
         Stop      : 1
         Parity    : None
         Echo      : N
         Append LF : N
         Term emul : None
         Prot base : D

         Capture File :



 Valid com ports are : 1-4
 T)erminal Attrib, S)hift Fxx, C)trl Fxx, A)lt Fxx, F)inish (saves), Q)uit :

 F8=Rest is ok, F10/ESC=current mode.
```

2. Enter the desired value.

3. Press Enter.

    If you do not want to change a value at a particular field, press Enter to advance to the next field.

    If you have changed some fields and all the remaining fields are acceptable, press F8 to return to the Edit Configuration window.

    At the last field (*Prot base*), if you change the value, press Enter to make all changes to the terminal attributes. If you do not change the value of the protocol base, press Enter or F8 to make any other changes to the system parameters.

    If you change the default settings, the changes remain in effect until you change them again or you exit the program to the Master Menu. When you return to the Master Menu, the computer automatically restores the default settings.

    See ***Finish*** in this section if you wish to save the changes.

TERMINAL EMULATOR

Here are descriptions of each parameter:

Com Port - Specifies which communications port to use. Acceptable entries are 1 - 4. This field defaults to 1.

Baud - Specifies the baud rate for the communications port. Acceptable baud rates are 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19 (19,200) and 38 (38,400). This field defaults to 1200.

Word - Specifies the number of word bits for the communications port. Acceptable values are 7 and 8. This field defaults to 8.

Stop - Specifies the number of stop bits for the communications port. Acceptable values are 1 and 2. This field defaults to 1.

Parity - Specifies the parity for the communications port. Acceptable values are E)ven, O)dd, N)one. This field defaults to None.

Echo - Specifies how the terminal emulator communicates. Acceptable values are Y)es, echo (results in half duplex operation) and N)o, don't echo (results in full duplex operation). This field defaults to N.

Append LF - Tells the computer whether to add a linefeed when it receives an Enter (CR or carriage return) command. Acceptable values are Y)es, append a linefeed character after Enter and N)o, don't append a linefeed after Enter. This field defaults to N.

Term Emul - Selects the specific type of terminal the computer emulates. Partial emulation of ADDS Viewpoint functions is available by selecting A. The available ADDS Viewpoint functions are clear screen, clear to the end of line, and cursor positioning. Select N (none) for no terminal emulation. This field defaults to None.

Prot Base - Specifies the number base that the Debug Mode uses to display data. Acceptable values are D (decimal) and H (hexadecimal). This field defaults to D.

Capture File - Displays the name and status of a capture file if one is open.

NOTE: *You cannot change the Capture File parameter while editing the terminal configuration.*

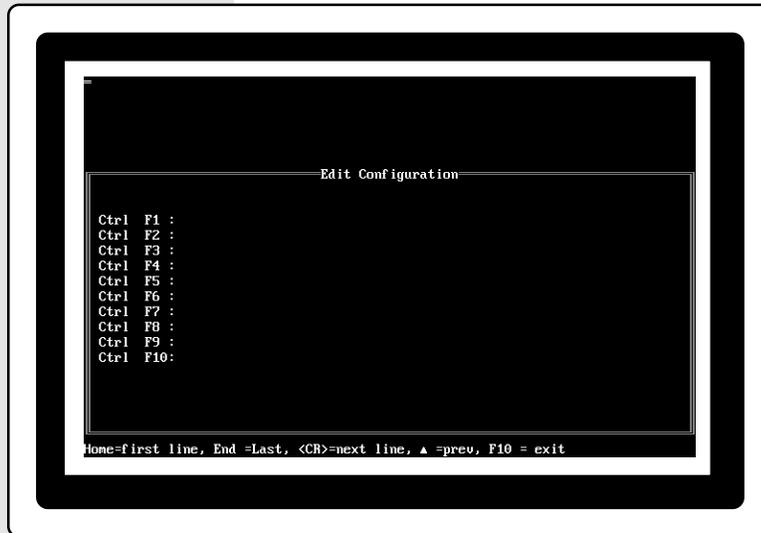## SHIFT FXX

The S)hift Fxx option allows you to define text strings that you can play back when you press the Shift key and one of the function keys simultaneously.

To program the Shift and function keys:

1.   Type **S.** This screen appears:
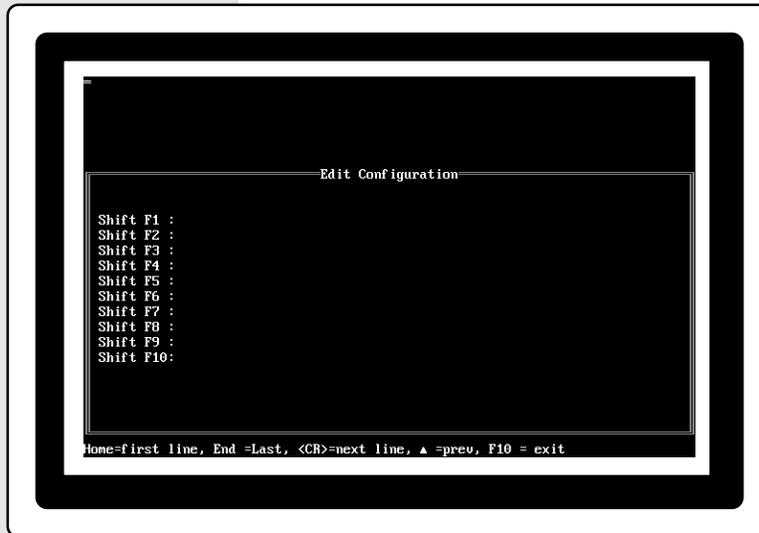
```
                          ─Edit Configuration─
Shift F1 :
Shift F2 :
Shift F3 :
Shift F4 :
Shift F5 :
Shift F6 :
Shift F7 :
Shift F8 :
Shift F9 :
Shift F10:



Home=first line, End =Last, <CR>=next line, ▲ =prev, F10 = exit
```

2.   Enter a string of characters, up to a maximum of 56 characters. An Enter can be included as part of the string by entering Ctrl-M.

3.   Press Enter.

     If you do not want to program a particular function key, press Enter to advance to the next field.

     If you do not want to program all the function keys, press F10 to return to the Edit Configuration window.

     At the last field (Shift F10), the Edit Configuration window appears when you press Enter.

     The programming of the function keys remains in effect until you change the programming or you exit to the Master Menu. When you return to the Master Menu, the programming of the function keys is erased.

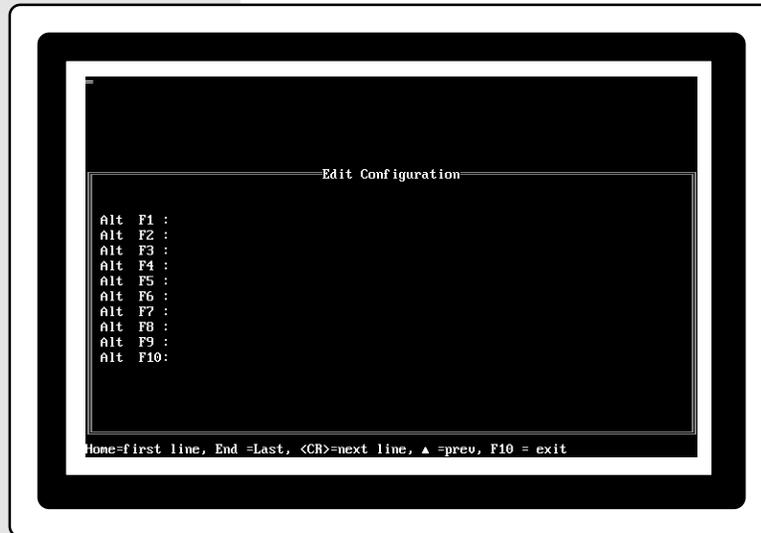   See *Finish* in this section if you wish to save the programming.

C<small>TRL</small> F<small>XX</small>

The C)trl Fxx option allows you to define text strings that you can play back when you press the Ctrl key and one of the function keys simultaneously.

To program the Ctrl and function keys:

1.   Type **C.** This screen appears:

```
━
                       ┌─Edit Configuration─┐
Ctrl  F1 :
Ctrl  F2 :
Ctrl  F3 :
Ctrl  F4 :
Ctrl  F5 :
Ctrl  F6 :
Ctrl  F7 :
Ctrl  F8 :
Ctrl  F9 :
Ctrl  F10:


Home=first line, End =Last, <CR>=next line, ▲ =prev, F10 = exit
```

2.   Enter a string of characters, up to a maximum of 56 characters. An Enter can be included as part of the string by entering Ctrl-M.

3.   Press Enter.

If you do not want to program a particular function key, press Enter to advance to the next field.

If you do not want to program all the function keys, press F10 to return to the Edit Configuration window.

At the last field (Ctrl F10), the Edit Configuration window appears when you press Enter.

The programming of the function keys remains in effect until you change the programming or you exit to the Master Menu. When you return to the Master Menu, the programming of the function keys is erased.

See *Finish* in this section if you wish to save the programming.

ALT FXX

The A)lt Fxx option allows you to define text strings that you can play back when you press the Alt key and one of the function keys simultaneously.

To program the Alt and function keys:

1. Type **A.** This screen appears:

```
                           ┌─Edit Configuration─────────────────────────────┐
                           │                                                │
                  Alt  F1 :│                                                │
                  Alt  F2 :│                                                │
                  Alt  F3 :│                                                │
                  Alt  F4 :│                                                │
                  Alt  F5 :│                                                │
                  Alt  F6 :│                                                │
                  Alt  F7 :│                                                │
                  Alt  F8 :│                                                │
                  Alt  F9 :│                                                │
                  Alt  F10:│                                                │
                           │                                                │
                           └────────────────────────────────────────────────┘
       Home=first line, End =Last, <CR>=next line, ▲ =prev, F10 = exit
```

2. Enter a string of characters, up to a maximum of 56 characters. An Enter can be included as part of the string by entering Ctrl-M.

3. Press Enter.

   If you do not want to program a particular function key, press Enter to advance to the next field.

   If you do not want to program all the function keys, press F10 to return to the Edit Configuration window.

   At the last field (Alt F10), the Edit Configuration window appears when you press Enter.

   The programming of the function keys remains in effect until you change the programming or you exit to the Master Menu. When you return to the Master Menu, the programming of the function keys is erased.

   See *Finish* on the next page if you wish to save the programming.

Finish

The Finish options lets you save changes to the terminal configuration. You can save the changes in two ways:

1. You can create a file that replaces the default settings with new default settings in the file that you make. The default settings are those that the computer uses for the terminal configuration whenever you enter the T/Shell program from the Master Menu. The initial default settings are listed under ***Terminal Attributes*** in this section.

2. You can create a file that you can use later but does not change the default settings.

To create a file that *does* change the default settings:

1. Make the changes as described under ***Terminal Attributes*** in this section.

2. Make the changes as described under ***Shift Fxx, Ctrl Fxx,*** and ***Alt Fxx*** in this section.

3. Type **F** when you are in the Edit Configuration window.

4. Type the file name **TERM**.

5. Press Enter.

The new settings are now the defaults for the terminal configuration whenever you enter the T/Shell program from the Master Menu.

To create a file that *does not* change the default settings:

1. Make the changes as described under ***Terminal Attributes*** in this section.

2. Make the changes as described under ***Shift Fxx, Ctrl Fxx,*** and ***Alt Fxx*** in this section.

3. Type **F** when you are in the Edit Configuration window.

4. Type a valid DOS file name without an extension. The extension .CNF is automatically appended to the name.

5. Press Enter.

Whenever you enter the T/Shell program from the Master Menu, the initial default settings are still used for the terminal configuration. To change the default settings using the file that you just created:

1. Press F5 (Ld Cnf) from the main terminal emulator screen.

2. Enter the name of the file.

3. Press Enter.

The settings in the file are now the defaults. They remain active until you change the settings, load a different terminal configuration file, or exit the program to the Master Menu.

CAPTURE FILE

The capture file stores data that is displayed on the computer screen. The F2 (Cap), F3 (O/Cap) and F4 (C/Cap) keys control the capture of displayed data into a capture file.

CAPTURING DATA

To capture data:

1. Press F3 (O/Cap) to open a file for storing captured data.

2. Enter a file name. This can be any valid DOS file name and can include the optional three character file extension. If you do not specify a file extension, the terminal emulator will append the .CAP extension automatically.

3. Press Enter.

4. The word "off" appears in the lower right corner of the screen. This indicates that a capture file is open but is not capturing data. To activate the capture file, press F2 (Cap). The capture status of the word "on" indicates that data is being captured.

5. Press F4 when you want to end the screen capture, save the data, and close the file.

   The maximum amount of data that can be stored in one capture file is 16 kilobytes. This is the contents of approximately eight screens. When the file is full, new data will overwrite old data. To capture more than 16 kilobytes of data, close the file when you have captured about eight screens of data and open another file.

   If you want to temporarily suspend the capture operation, press F2 (Cap). The capture status in the lower right corner changes to "off." At this point, the capture file is still open but is inactive. Incoming data is still received, but it is not recorded. To reactivate the capture, press the F2 key again. The capture status changes to "on."

VIEWING A CAPTURE FILE

Review a captured file by using any text editor in DOS or Windows that accepts files in standard ASCII format.

LOAD CONFIGURATION

For information about this option, see **Finish** in the **Edit Terminal Configuration** section.

FILE DOWNLOAD

Press F7 from the main terminal emulator screen to select the file download option. Here is the File Transmission (Download) window:

```
                    ┌─File Transmission (Download)─┐

          File to Transmit  : ...........................
          Character Delay   :
          Line Delay        :
          Send EOF char (^Z):
          Send line feeds   :




Any Dos file spec is ok,  A:path1\path2\file.txt



F10 or ESC to exit current mode.
```

To download a file:

1. Enter the values for each field.

2. Press Enter. File transmission will begin after pressing Enter at the *Send Line Feeds* prompt.

   During transmission, the screen is blank except for a status line at the bottom of the screen. The message in the status line indicates the name of file being transferred and the number of bytes transferred so far.

   If you want to terminate the file transmission, press either Esc or F10. Control returns to the terminal emulator upon completion of the file transmission.

NOTE: *Use the Edit Configuration screen to set the data transmission parameters. To access this screen, press the F1 key. Before you attempt a file download, verify that the terminal configuration parameters are compatible with those of device that will be receiving the data.*

Here are descriptions of the File Transmission fields:

File to Transmit - This is the disk drive, path, and filename designation of the DOS file that you want to transfer. For example, you would type A:\NEWDIR\MYFILE.DAT and press Enter if the filename is MYFILE.DAT and is stored in directory NEWDIR on disk drive A. (See your DOS manual for more information on directories and file names.)

Character Delay - This parameter is the amount of time, in milliseconds, that your computer waits between the characters it transmits. The acceptable range is 0-500 milliseconds (one-half second). This field defaults to 0 (zero).

Line Delay - This is the amount of time, in milliseconds, that your computer waits between the lines it transmits. The acceptable range is 0 (zero) to 999 milliseconds. This field defaults to 0 (zero).

Send EOF Char (^Z) - This parameter controls whether your computer transmits an end-of-file (Ctrl Z) character at the end of a DOS file. Acceptable responses are Y (yes) or N (no). The Send EOF Char defaults to N.

Send Line Feeds - This is the parameter that controls whether your computer transmits line feeds at the ends of lines. Acceptable responses are Y (yes) or N (no). The Send Line Feeds defaults to N.

DEBUG MODE (PROTOCOL ANALYZER)

To toggle the debug mode on and off, press F8 from the main terminal emulator screen. It is used for troubleshooting equipment connected to the terminal emulator. When the debug mode is on, data displays beginning at the current cursor position. The ASCII values of any bytes received display rather than the characters themselves. Data can be displayed in either decimal or hexadecimal format. The default display mode is decimal.

To change the display mode setting:

1. Press F1 (Cnf) from the main terminal emulator screen.

2. Type **T** when you are in the Edit Configuration window.

3. Change the *Prot Base* parameter in the Terminal Configuration window.

WARRANTY

LIMITED WARRANTY

The Seller warrants that the standard hardware products sold will be free from defects in material and workmanship and perform to the Seller's applicable published specifications for a period of 18 months for hardware, and 3 months for software, from the date of the original invoice. The liability of the Seller hereunder shall be limited to replacing or repairing, at its option, any defective products which are returned F.O.B. to the Seller's plant, (or, at the Seller's option, refunding the purchase price of such products). In no case are products to be returned without first obtaining permission and a customer return authorization number from the Seller. In no event shall the Seller be liable for any consequential or incidental damages.

Equipment or parts which have been subject to abuse, misuse, accident, alteration, neglect, unauthorized repair or installation are not covered by warranty. The Seller shall make the final determination as to the existence and cause of any alleged defect. No warranty is made with respect to custom equipment or products produced to the Buyer's specifications except as specifically stated in writing by the Seller in the contract for such custom equipment.

This warranty is the only warranty made by the Seller with respect to the goods delivered hereunder, and may be modified or amended only by a written instrument signed by a duly authorized officer of the Seller and accepted by the Buyer.

Warranty and remedies on products not manufactured by the Seller are in accordance with warranty of the respective manufacturer. THE SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS THE AFORESAID OBLIGATIONS IS HEREBY DISCLAIMED BY THE SELLER.

IN CASE OF DIFFICULTY

If you experience difficulty with this equipment, check the following, as appropriate:

1. **Switch settings**
2. **Signal levels**
3. **Software configuration**
4. **Connections between Dantel's equipment and your equipment.**

If there is still a problem, substitute equipment that is known to be good. For additional assistance, call Dantel's Technical Field Service Department weekdays, 6 A.M. to 5 P.M. pacific time:

1-800-4DANTEL (1-800-432-6835).

If a thorough checkout shows a piece of equipment has malfunctioned, you may return it to the factory. For repairs and emergency replacements, obtain a Return Material Authorization (RMA) number from the Customer Service Representative at **1-800-4DANTEL** (1-800-432-6835).

To ensure expedient processing of your order, provide a purchase order number and shipping and billing information when requesting an RMA number. Also, when the units are returned to Dantel, include a description of the failure symptoms for each unit returned. Send defective equipment to:

Dantel, Inc.   •   2991 North Argyle Avenue   •   Fresno, California 93727-1388

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