Changing Instrument Settings

This section describes how to change the date and time settings, printer settings, and the GPIB and RS-232 parameters. This section describes how to display a screen that details the CTS850 SDH/PDH Test Set configuration. You will also find a description of how to run the instrument self-test in this section.

Viewing the Instrument Configuration

You can display a page that describes how the CTS850 is configured as well as the installed options and the hardware and firmware revision level.

To display the instrument configuration:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	INSTR CONFIG	*none*	*none*

Table 3 48 describes the lines of the INSTR CONFIG page.

Table 3 48: Lines of the Instrument Configuration Page

Line	Description
Model	The model number of the instrument.
Serial Number	The serial number of the instrument.
Hardware Revision	The version of hardware.
Option Revision	The version of options.
Firmware Revision	The version of firmware.
Options	Lists the options and number of options

Table 3 48: Lines of the Instrument Configuration Page (Cont.)

Line	Description
Interface Module	Displays which interface module is installed (supported transmit and receive rates) and wavelength of module, if optical.
PDH Option	Indicates whether the 2/8/34/45/140 Mb/s Mux/Demux options are installed.
Jitter Option	Indicates whether Jitter/Wander Option is installed
VC4 4c	BER test of Concatenated STM 4c signal

Setting the Display Brightness

You can set the display brightness to three levels: Low, Medium, and High.

To set the display brightness:

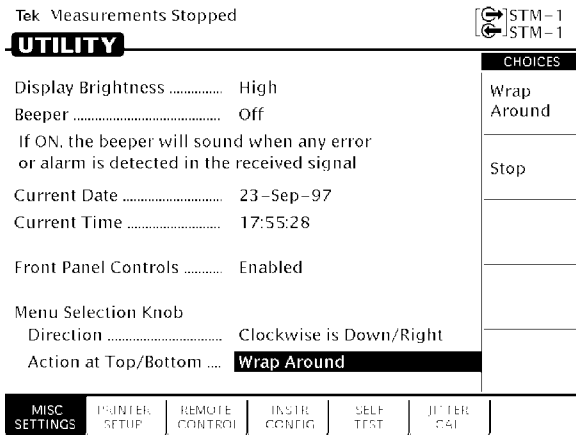| Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	MISC SETTINGS (see Figure 3 102)	Display Brightness	Low
			Medium
			High

CTS850 SDH/PDH Test Set User Manual

Figure 3 102: The MISC SETTINGS Page

Turning the Beeper On and Off

The CTS850 has a beeper. The beeper is used to alert you when a pass/fail test has completed, or when certain conditions occur. You can turn off the beeper if you wish.

To turn the beeper on or off:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	MISC SETTINGS (see Figure 3 102)	Beeper	On
			Off

Setting the Date

The date is used when writing files to disk, it is used to track measurement history, and it is used when displaying history graphs.

To set the date:

1. Display the current date setting as follows:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	MISC SETTINGS	Current Date	SET DATE

After you select SET DATE, the CTS850 enters Edit Mode.

2. Assign the knob by selecting **Year**, **Month**, or **Day** as necessary.

3. Turn the knob to change the setting.

4. Select **CANCEL** to abort any changes and exit Edit Mode.

5. Select **DONE** to enter your changes and exit Edit Mode.

Setting the Time

The time is used when writing files to disk, it is used to track measurement history, and it is used when displaying history graphs.

To set the time:

1. Display the current time as follows:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	MISC SETTINGS (see Figure 3 102)	Current Time	SET TIME

After you select SET TIME, the CTS850 enters Edit Mode.

CTS850 SDH/PDH Test Set User Manual

NOTE. While you set the time in Edit Mode, the clock stops running.

---

2. Assign the knob by selecting **Hour**, or **Minute** as necessary.

3. Turn the knob to change the setting.

4. Select **CANCEL** to abort any changes and exit Edit Mode.

5. Select **DONE** to enter your changes and exit Edit Mode.

Changing the Printer Setup

The CTS850 prints to Tek DPU-411 printers, Epson-compatible printers, Hewlett-Packard Thinkjet printers and ASCII text printers. It can also print to a file on disk. The print parameters are located on the PRINTER SETUP page of the UTILITY menu (see Figure 3 103). Printers are supported only by an RS-232 connection.
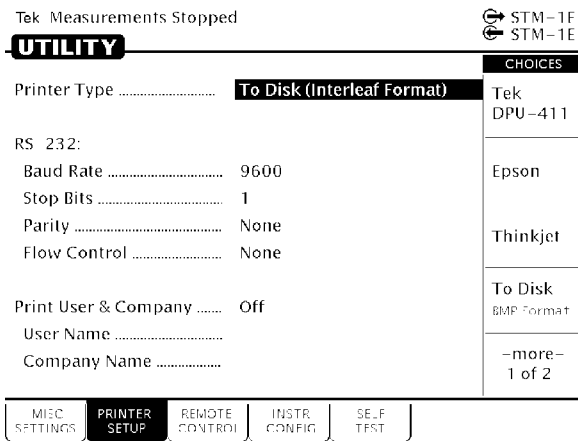

Figure 3 103: The PRINTER SETUP Page

Setting up the CTS850 for a printer consists of two steps, specifying the printer or file type and setting RS-232 parameters. Additionally,

you can specify two lines of text to be included on any printout. The two lines of text identify the user name and the company name.

Specifying the Printer or File Type

To set the printer or file type:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	PRINTER SETUP	Printer Type	Tek DPU-411
			Epson
			Thinkjet
			To Disk BMP Format
			To Disk Ileaf Format
			To Disk EPS Format
			To Disk ASCII

H Select **To Disk BMP Format** to print a file to disk in Windows bitmap format.

H Select **To Disk Ileaf Format** to print a file to disk in Interleaf image format.

H Select **To Disk EPS Format** to print a file to disk in Encapsulated PostScript format.

Setting RS-232 Parameters

To determine the correct RS-232 settings for your printer, refer to the manual that came with your printer.

To set the RS-232 parameters for the printer:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	PRINTER SETUP	Baud Rate	1200
			2400
			4800
			9600
		Stop Bits	1
			2
		Parity	None
			Odd
			Even
		Flow Control	None
			Software
			Hardware
			H/W & S/W

Setting the Print User & Company Text

You can have the CTS850 include text on a printout that identifies the user name and company name. Including this text is optional.

To set the user name and company name:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	PRINTER SETUP	Print User & Company	On
			Off
		User Name	EDIT TEXT
		Company Name	EDIT TEXT

H   The User Name and Company Name fields are 20 characters long. Select **DONE** when you are finished editing the name.

Setting Remote Control Parameters

You can control the CTS850 using a General Purpose Interface Bus (GPIB) or an RS-232 connection. For information on remote control commands, refer to the CTS850 *Programmer Manual.*

Setting the GPIB Address

To set the CTS850 GPIB address:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	REMOTE CONTROL	GPIB Primary Address (see Figure 3 104)	Default 4
			Inc
			Dec
			Offline

H   Select **Default 4** to set the GPIB address to its default value.

H   Select **Inc** to increment the GPIB address.

H   Select **Dec** to decrement the GPIB address.

H   Select **Offline** to place the CTS850 in the offline state.

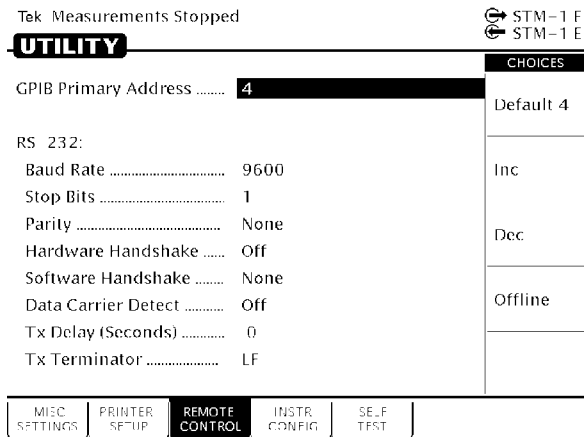H   The maximum GPIB address value is 30. The minimum GPIB address value is 0.

Figure 3 104: The REMOTE CONTROL Page

Setting RS-232 Parameters

The appropriate settings for RS-232 parameters depend on how the controller is set up. Refer to the user manual that came with your controller to determine the correct settings.

CTS850 SDH/PDH Test Set User Manual

To set the remote control RS-232 parameters:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	REMOTE CONTROL (see Figure 3 104)	Baud Rate	1200
			2400
			4800
			9600
		Stop Bits	1
			2
		Parity	None
			Odd
			Even
		Hardware Handshake	Off
			On
		Software Handshake	None
			Xon/Xoff
		Data Carrier Detect	Off
			On
		Tx Delay (Seconds)	0
			1
			5
			Inc
			Dec

CTS850 SDH/PDH Test Set User Manual

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
		Tx Terminator	LF
			CR
			CR/LF
			LF/CR

H   For Tx Delay, select one of the preset choices or use **Inc** and **Dec** to specify a value different from the preset choices.

H   The maximum value for Tx Delay is 60. The minimum value is 0.

Running Instrument Self Tests

The CTS850 provides self-contained tests that can be run any time you suspect the CTS850 may not be performing properly.

The only test you might need to perform is the Power up Self Test. The other self tests available for selection are for servicing the instrument. Complete details on the self tests are located in the *CTS 850 SDH/PDH Test Set Service* manual.

Running the Power Up Self Test

To run the power up self test:

Press Menu Button	Select Menu Page	Highlight Parameter	Select Choice
UTILITY	SELF TEST	Self Test Group	Power up Self Test
		Self Test Loop	Once
		Self Test Control	Run

H   Select **Abort** to stop a self test in progress.

If your CTS850 fails the self test, contact the nearest Tektronix Service Center.

CTS850 SDH/PDH Test Set User Manual