

Introduction

Use this book to quickly access the main instrument functions and tasks.

Setting the Interfaces

Setting the Transmit Interfaces

Setting PDH Transmit Interface	Transmit [PDH/DSn] MAIN SETTINGS
Setting SDH Transmit Interface	Transmit [SDH] MAIN SETTINGS
Setting Jitter Transmit Interface	Transmit [SDH] JITTER OR Transmit [PDH/DSn] JITTER
Setting Wander Transmit Interface	Transmit [SDH] JITTER OR Transmit [PDH/DSn] JITTER
Setting SDH THRU Mode	Transmit [SDH] MAIN SETTINGS SIGNAL [THRU MODE]
Setting PDH THRU Mode (DS1/DS3 only)	Transmit [PDH/DSn] MAIN SETTINGS DS1/DS3 [THRU MODE]

Setting the Receive Interfaces

Using Smart Test	Smart Test [RUN TEST]
Setting PDH Receive Interface	Receive [PDH/DSn] MAIN SETTINGS
Setting SDH Receive Interface	Receive [SDH] MAIN SETTINGS
Setting Jitter Receive Interface	Receive [SDH] JITTER OR Receive [PDH/DSn] JITTER

Selecting Test Features

Selecting and Using Overhead Features

Using Transmit Overhead Setup	Transmit	[SDH]	OVERHEAD SETUP	
Using Receive Overhead Monitor	Receive	[SDH]	OVERHEAD MONITOR	
Setting Overhead Trace Messages	Transmit	[SDH]	OVERHEAD SETUP	SETUP [TRACE MESSAGES]
Generating Overhead Sequences	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [SEQUENCES]
Using Receive Overhead Capture	Receive	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [O/H CAPTURE]

Selecting and Using Signal Features

Adding Frequency Offset to the SDH Signal	<input type="button" value="Transmit"/> [SDH] <input type="button" value="MAIN SETTINGS"/> CLOCK [INTERNAL] FREQUENCY OFFSET [ON]
Adding Frequency Offset to the PDH Signal	<input type="button" value="Transmit"/> [PDH/DSn] <input type="button" value="MAIN SETTINGS"/> FREQUENCY OFFSET [<select>]
Setting up Signaling Bits	<input type="button" value="Transmit"/> [PDH/DSn] <input type="button" value="MAIN SETTINGS"/> SIGNAL [2Mb/s] PAYLOAD TYPE [PCM30] 2M CAS ABCD BITS [<select>]
Setting Transmit Structured Payload/Test Signal	<input type="button" value="Transmit"/> [SDH] <input type="button" value="STRUCT'D PAYLOAD"/> OR <input type="button" value="Transmit"/> [PDH/DSn] <input type="button" value="STRUCT'D SETTINGS"/>
Setting Receive Structured Payload/Test Signal	<input type="button" value="Receive"/> [SDH] <input type="button" value="STRUCT'D PAYLOAD"/> OR <input type="button" value="Receive"/> [PDH/DSn] <input type="button" value="STRUCT'D SETTINGS"/>
Connecting A Telephone Handset	<input type="button" value="Transmit"/> [SDH] <input type="button" value="STRUCT'D PAYLOAD"/> TEST SIGNAL [64 kb/s] HANDSET [<select>] <input type="button" value="Transmit"/> [PDH/DSn] <input type="button" value="STRUCT'D SETTINGS"/> TEST SIGNAL [64 kb/s] HANDSET [<select>]
Setting Transmit N X 64 kb/s Structured Payload/Test Signal	<input type="button" value="Transmit"/> [SDH] <input type="button" value="STRUCT'D PAYLOAD"/> TEST SIGNAL [Nx64kb/s] <input type="button" value="Transmit"/> [PDH/DSn] <input type="button" value="STRUCT'D SETTINGS"/> TEST SIGNAL [Nx64kb/s]
Setting Receive N X 64 kb/s Structured Payload/Test Signal	<input type="button" value="Receive"/> [SDH] <input type="button" value="STRUCT'D PAYLOAD"/> TEST SIGNAL [Nx64kb/s] <input type="button" value="Receive"/> [PDH/DSn] <input type="button" value="STRUCT'D SETTINGS"/> TEST SIGNAL [Nx64kb/s]

Selecting and Using Signal Features (cont'd)

Inserting an External PDH Payload/Test Signal	Transmit [SDH] STRUCT'D PAYLOAD 2M PAYLOAD [INSERT 2Mb/s]
	Transmit [PDH/DSn] STRUCT'D SETTINGS 2M PAYLOAD [INSERT 2Mb/s]
Dropping an External Payload/Test Signal	Receive [SDH] STRUCT'D PAYLOAD 2M PAYLOAD [DROP 2Mb/s]
	Receive [PDH/DSn] STRUCT'D SETTINGS 2M PAYLOAD [DROP 2Mb/s]
Adding Errors & Alarms at the SDH Interface	Transmit [SDH] TEST FUNCTION TEST FUNCTION [SDH] [ERR & ALARM]
Adding Errors & Alarms to the PDH Interface/PDH Payload	Transmit [SDH] TEST FUNCTION TEST FUNCTION [PDH PAYLD] [ERR & ALARM]
Using FEAC Codes in the HP 37718A	Transmit [PDH/DSn] TEST FUNCTION
Setting PDH Spare Bits	Transmit [SDH] TEST FUNCTION TEST FUNCTION [PDH PAYLD] [SPARE BITS]
Adding Pointer Adjustments	Transmit [SDH] TEST FUNCTION TEST FUNCTION [SDH] [ADJUST PTR]
Using Pointer Graph Test Function	Receive [SDH] TEST FUNCTION TEST FUNCTION [SDH] [PTR GRAPH]

Selecting and Using Signal Features (cont'd)

Generating Automatic Protection Switch Messages	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [APS MESSAGES]
Inserting Data Communications Channel	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [DCC INSERT]
Dropping Data Communications Channel	Receive	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [DCC DROP]

Making Measurements

Using Overhead BER Test Function	Receive [SDH] TEST FUNCTION TEST FUNCTION [SDH] [OVERHEAD BER]
Test Timing	Results RESULTS [TIMING CONTROL]
Making SDH Analysis Measurements	Results RESULTS [SDH] [ERROR ANALYSIS]
Making PDH Analysis Measurements	Results RESULTS [PDH PAYLOAD] [ERROR ANALYSIS]
Measuring Jitter	Results RESULTS [JITTER]
Measuring Frequency	Results RESULTS [SDH] [FREQUENCY]
Measuring Optical Power	Results RESULTS [SDH] [OPTICAL POWER]
Measuring Round Trip Delay	Results RESULTS [PDH PAYLOAD] [TRIP DELAY]
Measuring Service Disruption Time	Results RESULTS [SRVC DISRUPT]

Making Measurements (cont'd)

Performing an SDH Tributary Scan	Transmit [SDH] TEST FUNCTION TEST FUNCTION [TRIB SCAN] Results RESULTS [SDH TRIB SCAN]
Performing an SDH Alarm Scan	Results RESULTS [SDH ALM SCAN]
Performing a PDH Alarm Scan	Results [PDH ALM SCAN]
Measuring Jitter Tolerance	Transmit [PDH/DSn] JITTER JITTER [TOLERANCE]
Measuring Jitter Transfer	Transmit [PDH/DSn] JITTER JITTER [TRANSFER FN]

Storing, Logging and Printing

Saving Graphics Results to Instrument Store	Results	[TIMING CONTROL] GRAPH STORAGE [1 MIN RESOL'N]
Recalling Stored Graph Results	Graph	TEXT RESULTS STORE STATUS
Viewing the Bar Graph Display	Graph	GRAPH RESULTS
Viewing the Graphics Error and Alarm Summaries	Graph	TEXT RESULTS
Logging Graph Displays	Other	FUNCTION [LOGGING] LOGGING SETUP [DEVICE]
Logging Results	Other	FUNCTION [LOGGING] LOGGING SETUP [CONTROL]
Logging Results to Centronics Printer	Other	FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [PARALLEL]
Logging Results to HP-IB Printer	Other	FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [HP-IB]
Logging Results to Internal Printer	Other	FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [INTERNAL]

Storing, Logging and Printing (cont'd)

Logging Results to RS-232-C Printer	Other	FUNCTION [LOGGING] LOGGING SETUP [DEVICE] LOGGING PORT [RS232]
Logging Jitter Tolerance Results	Other	FUNCTION [LOGGING] LOGGING SETUP [DEVICE]
Logging Jitter Transfer Results	Other	FUNCTION [LOGGING] LOGGING SETUP [DEVICE]

Using Instrument and Disk Storage

Storing Configurations in Instrument Store	Other	FUNCTION [STORED SETTINGS]
Storing Current Configurations on Disk	Other	FUNCTION [FLOPPY DISK]
Setting up a Title for Configurations in Instrument Store	Other	FUNCTION [STORED SETTINGS]
Recalling Configurations from Instrument Store	Other	FUNCTION [STORED SETTINGS]
Formatting a Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [DISK] [FORMAT]
Labeling a Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [DISK] [LABEL]
Managing Files and Directories on Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [FILE]
Adding Descriptors to Disk Files	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [DISK]
Saving Graphics Results to Disk	Results	[TIMING CONTROL] GRAPH STORAGE [DISK]
Saving Data Logging to Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [SAVE]
Recalling Configuration from Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [RECALL] FILE TYPE [CONFIGURATION]

Using Instrument and Disk Storage (cont'd)

Recalling Graphics Results from Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [RECALL]FILE TYPE [GRAPHICS]
Copying Configuration from Instrument Store to Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [COPY] [FROM:] [CONFIGURATION]
Copying Configuration from Disk to Instrument Store	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [COPY] [TO:] [CONFIGURATION]
Copying Graphics Results from Instrument Store to Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [GRAPHICS]
Deleting a File on Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [DELETE] [DELETE FILE] NAME [<select>]
Deleting a Directory on Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [DELETE] [DELETE DIRECTORY]
Renaming a File on Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [RENAME]
Creating a Directory on Disk	Other	FUNCTION [FLOPPY DISK] DISK OPERATION [FILE] [CREATE DIRECTORY]

Selecting and Using "Other" Features

Coupling Transmit & Receive Settings	Other	FUNCTION [SETTINGS CONTROL] TRANSMITTER AND RECEIVER [COUPLED]
Suspending Test on Signal Loss	Other	FUNCTION [MISCELLANEOUS] SUSPEND TEST ON SIGNAL LOSS [ON]
MS-REI Results Enable	Other	FUNCTION [MISCELLANEOUS] MS-REI RESULT ENABLE
Inband DS1 Loopcode 156MTS Compatibility	Other	FUNCTION [MISCELLANEOUS] INBAND DS1 LOOPCODE 156MTS COM-
Setting Time & Date	Other	FUNCTION [TIME & DATE]
Enabling Keyboard Lock	Other	FUNCTION [MISCELLANEOUS] KEYBOARD LOCK [ON]
Enabling Beep on Received Error	Other	FUNCTION [MISCELLANEOUS] BEEP ON RECEIVED ERROR [ON]
Setting Error Threshold Indication	Other	FUNCTION [COLOR CONTROL]

Selecting and Using "Other" Features (cont'd)

Dumping Display to Disk	Other	FUNCTION [LOGGING] LOGGING SETUP [CONTROL] LOG ON DEMAND [SCREEN DUMP]
Setting Screen Brightness and Color	Other	FUNCTION [COLOR CONTROL]
Running Self Test	Other	FUNCTION [SELF TEST]