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HP References in this Manual

This manual may contain references to HP or Hewlett-Packard. Please note that Hewlett-Packard's former test and measurement, semiconductor products and chemical analysis businesses are now part of Agilent Technologies. We have made no changes to this manual copy. In other documentation, to reduce potential confusion, the only change to product numbers and names has been in the company name prefix: where a product number/name was HP XXXX the current name/number is now Agilent XXXX. For example, model number HP8648A is now model number Agilent 8648A.

HP 37717C
Quick Reference
Guide

Setting the Interfaces

Setting the Transmit Interfaces

Setting PDH Transmit Interface	Transmit	[PDH]	MAIN SETTINGS	
Setting PDH Transmit Binary Interface	Transmit	[PDH]	BINARY	
Setting SDH Transmit Interface	Transmit	[SDH]	SDH	
Setting Jitter Transmit Interface	Transmit	[SDH]	JITTER	OR Transmit [PDH] JITTER
Setting Wander Transmit Interface	Transmit	[SDH]	JITTER	OR Transmit [PDH] JITTER
Selecting the Physical Transmit Interface for ATM Payloads	Transmit	[ATM]	PHYSICAL LAYER	
Setting SDH THRU Mode	Transmit	[SDH]	SDH	SIGNAL [] [THRU MODE]

Setting the Receive Interfaces

Using Autosetup	Autosetup
Setting PDH Receive Interface	Receive [PDH] MAIN SETTINGS
Setting PDH Receive Binary Interface	Receive [PDH] BINARY
Setting SDH Receive Interface	Receive [SDH] SDH
Setting Jitter Receive Interface	Receive [SDH JITTER] OR Receive [PDH] JITTER
Selecting the Physical Receive Interface for ATM payloads	Receive [ATM] PHYSICAL LAYER

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]
Generating Overhead Sequences	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [SEQUENCES]
Using Receive Overhead Capture	Receive	[SDH]	TEST FUNCTION	TEST FUNCTION [O/H CAPTURE]

Selecting and Using Signal Features

Adding Frequency Offset to the SDH Signal	Transmit	[SDH]	SDH	CLOCK [INTERNAL] OFFSET [ON]
Adding Frequency Offset to the PDH Signal	Transmit	[PDH]	MAIN SETTINGS	FREQUENCY OFFSET [<select>]
Setting up Signaling Bits	Transmit	[PDH]	TEST FUNCTION	
Setting Transmit Structured Payload/Test Signal	Transmit	[SDH]	STRUCT'D PAYLOAD	OR Transmit [PDH] STRUCT'D SETTINGS
Setting Receive Structured Payload/Test Signal	Receive	[SDH]	STRUCT'D PAYLOAD	OR Receive [PDH] STRUCT'D SETTINGS
Connecting A Telephone Handset	Transmit	[SDH]	STRUCT'D PAYLOAD	TEST SIGNAL [64 kb/s] [HANDSET]
	Transmit	[PDH]	STRUCT'D SETTINGS	TEST SIGNAL [64 kb/s] [HANDSET]
Setting Transmit N X 64 kb/s Structured Payload/Test Signal	Transmit	[SDH]	STRUCT'D PAYLOAD	TEST SIGNAL [Nx64]
	Transmit	[PDH]	STRUCT'D SETTINGS	TEST SIGNAL [Nx64]
Setting Receive N X 64 kb/s Structured Payload/Test Signal	Receive	[SDH]	STRUCT'D PAYLOAD	TEST SIGNAL [Nx64]
	Receive	[PDH]	STRUCT'D SETTINGS	TEST SIGNAL [Nx64]

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]	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]	STRUCT'D SETTINGS	2M PAYLOAD [DROP 2Mb/s]
Selecting ATM Cell Stream Payload	Transmit	[ATM]	ATM LAYER	CELLSTREAM [CONTENTS]
Selecting ATM Cell Stream Timing Distribution	Transmit	[ATM]	ATM LAYER	CELLSTREAM [DISTRIBUTION]
Selecting ATM Cell Stream Headers and Interface	Transmit	[ATM]	ATM LAYER	CELLSTREAM [CONTENTS]
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 37717C	Transmit	[PDH]	TEST FUNCTION	
Adding ATM Errors and Alarms	Transmit	[ATM]	TEST FUNCTION	TEST FUNCTION [ATM PAYLD] [ERR & ALARM]
Setting PDH Spare Bits	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [PDH PAYLD] [SPARE BITS]

Selecting and Using Signal Features (cont'd)

Adding Pointer Adjustments	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [ADJUST POINTER]
Using Pointer Graph Test Function	Receive	[SDH]	TEST FUNCTION	TEST FUNCTION [POINTER GRAPH]
Stressing Optical Clock Recovery Circuits	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [STRESS TEST]
Generating Automatic Protection Switch Messages	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [APS MESSAGES]
Inserting & Dropping Data Communications Channel	Transmit	[SDH]	TEST FUNCTION	TEST FUNCTION [SDH] [DCC INSERT/ DROP]

Making Measurements

Using Overhead BER Test Function	Receive	[SDH] TEST FUNCTION TEST FUNCTION [OVERHEAD BER]
Test Timing	Results	TIMING CONTROL
Making SDH Analysis Measurements	Results	[SDH] ANALYSIS
Making PDH Analysis Measurements	Results	[PDH] ERROR ANALYSIS
Measuring Jitter	Results	JITTER
Measuring Wander	Results	WANDER
Measuring Frequency	Results	[SDH] FREQUENCY OR Results [PDH] FREQUENCY
Measuring Optical Power	Results	[SDH] OPTICAL POWER
Measuring Round Trip Delay	Results	[PDH PAYLD] [TRIP DELAY]
Monitoring Signaling Bits	Results	[PDH PAYLD] [SIG/BIT MONITOR]
Measuring Service Disruption Time	Results	SRVC DISRUPT

Making Measurements (cont'd)

Performing an SDH Tributary Scan	Transmit [SDH] TEST FUNCTION [TRIB SCAN]
	Results [SDH] [TRIB SCAN]
Performing an SDH Alarm Scan	Transmit [SDH] TEST FUNCTION [ALM SCAN]
	Results [SDH] [ALM SCAN]
Performing a PDH Alarm Scan	Results [PDH] [ALM SCAN]
Measuring Jitter Tolerance	Transmit [PDH] JITTER [TOLERANCE]
Measuring Jitter Transfer	Transmit [PDH] JITTER [TRANSFER FN]
Selecting the ATM Measurement Parameters	Receive [ATM] ATM LAYER
Making ATM Measurements	Results [ATM]
Measuring Cell Transfer Delay and Cell Delay Variation	Results [ATM] [CELL DELAY]
Measuring ATM Non-Conforming cells and one-point Cell Delay Variation	Receive [ATM] ATM LAYER
Monitoring ATM Alarms	Results [ATM] [ALARM SECONDS]

Storing, Logging and Printing

Saving Graphics Results to Instrument Store	Results	[TIMING CONTROL] GRAPH STORAGE [1 MIN RESOLN]
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	[LOGGING] LOGGING SETUP [DEVICE]
Logging Results	Other	[LOGGING] LOGGING SETUP [CONTROL]
Logging Results to Centronics Printer	Other	[LOGGING] LOGGING SETUP [DEVICE]
Logging Results to HP-IB Printer	Other	[LOGGING] LOGGING SETUP [DEVICE]
Logging Results to Internal Printer	Other	[LOGGING] LOGGING SETUP [DEVICE]
Logging Results to RS-232-C Printer	Other	[LOGGING] LOGGING SETUP [DEVICE]
Logging Jitter Tolerance Results	Other	[LOGGING] LOGGING SETUP [DEVICE]
Logging Jitter Transfer Results	Other	[LOGGING] LOGGING SETUP [DEVICE]

Using Instrument and Disk Storage

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

Using Instrument and Disk Storage (cont'd)

Recalling Configuration from Disk	Other	[FLOPPY DISK] DISK OPERATION [RECALL]
Recalling Graphics Results from Disk	Other	[FLOPPY DISK] DISK OPERATION [RECALL]
Copying Configuration from Instrument Store to Disk	Other	[FLOPPY DISK] DISK OPERATION [FILE]
Copying Configuration from Disk to Instrument Store	Other	[FLOPPY DISK] DISK OPERATION [FILE]
Copying Graphics Results from Instrument Store to Disk	Other	[FLOPPY DISK] DISK OPERATION [FILE]
Deleting a File on Disk	Other	[FLOPPY DISK] DISK OPERATION [FILE]
Deleting a Directory on Disk	Other	[FLOPPY DISK] DISK OPERATION [FILE]
Renaming a File on Disk	Other	[FLOPPY DISK] DISK OPERATION [FILE]
Creating a Directory on Disk	Other	[FLOPPY DISK] DISK OPERATION [FILE]

Selecting and Using "Other" Features

Coupling Transmit & Receive Settings	Other	[SETTINGS CONTROL]
Suspending Test on Signal Loss	Other	[MISCELLANEOUS]
Setting Time & Date	Other	[TIME AND DATE]
Enabling Keyboard Lock	Other	[MISCELLANEOUS]
Enabling Beep on Received Error	Other	[MISCELLANEOUS]
Enabling Analysis Control	Other	[MISCELLANEOUS]
Setting Error Threshold Indication	Other	[COLOR CONTROL]
Dumping Display to Disk	Other	[LOGGING] LOGGING SETUP [CONTROL] LOG ON DEMAND [SCREEN DUMP]
Setting Screen Brightness and Color	Other	[COLOR CONTROL]
Running Self Test	Other	[SELF TEST]

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Hewlett-Packard Ltd
Printed in UK 3/98

Reorder No.
37717-90406

**Manufacturing
Part No.
37717-90406**

