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 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**	[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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37717-90406

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