

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

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|---|---|
| Using Autoseup | 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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