

**HP OmnibER 718/719  
Quick Reference  
Guide**



## Setting the Interfaces

### Setting the Transmit Interfaces

Setting PDH Transmit Interface	<b>Transmit</b> [PDH/DSn] <b>MAIN SETTINGS</b> [<select>]
Setting SDH Transmit Interface	<b>Transmit</b> [SDH] <b>MAIN SETTINGS</b>
Setting Jitter Transmit Interface	<b>Transmit</b> [SDH] <b>JITTER</b> OR <b>Transmit</b> [PDH/DSn] <b>JITTER</b>
Setting Wander Transmit Interface	<b>Transmit</b> [SDH] <b>JITTER</b> OR <b>Transmit</b> [PDH/DSn] <b>JITTER</b>
Setting SDH THRU Mode	<b>Transmit</b> [SDH] <b>MAIN SETTINGS</b> SIGNAL [<select>] [THRU MODE]

## Setting the Receive Interfaces

Using Smart Test	<b>Smart Test</b>
Setting PDH Receive Interface	<b>Receive</b> [PDH/DSn] <b>MAIN SETTINGS</b>
Setting SDH Receive Interface	<b>Receive</b> [SDH] <b>MAIN SETTINGS</b>
Setting Jitter Receive Interface	<b>Receive</b> [SDH] <b>JITTER</b> OR <b>Receive</b> [PDH/DSn] <b>JITTER</b>

## Selecting Test Features

### Selecting and Using Overhead Features

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

## Selecting and Using Signal Features

Adding Frequency Offset to the SDH Signal	<b>Transmit</b> [SDH] <b>MAIN SETTINGS</b> CLOCK [INTERNAL] FREQUENCY OFFSET [ON]
Adding Frequency Offset to the PDH Signal	<b>Transmit</b> [PDH/DSn] <b>MAIN SETTINGS</b> FREQUENCY OFFSET [<select>]
Setting up Signaling Bits	<b>Transmit</b> [PDH/DSn] <b>MAIN SETTINGS</b> SIGNAL [2Mb/s] PAYLOAD TYPE [PCM30] 2M CAS ABCD BITS [<select>]
Setting Transmit Structured Payload/Test Signal	<b>Transmit</b> [SDH] <b>STRUCT'D PAYLOAD</b> OR <b>Transmit</b> [PDH/DSn] <b>STRUCT'D SETTINGS</b>
Setting Receive Structured Payload/Test Signal	<b>Receive</b> [SDH] <b>STRUCT'D PAYLOAD</b> OR <b>Receive</b> [PDH/DSn] <b>STRUCT'D SETTINGS</b>
Connecting A Telephone Handset (Option 010 Only)	<b>Transmit</b> [SDH] <b>STRUCT'D PAYLOAD</b> TEST SIGNAL [64 kb/s] HANDSET [<select>] <b>Transmit</b> [PDH/DSn] <b>STRUCT'D SETTINGS</b> TEST SIGNAL [64 kb/s] HANDSET [<select>]
Setting Transmit N X 64 kb/s Structured Payload/Test Signal	<b>Transmit</b> [SDH] <b>STRUCT'D PAYLOAD</b> TEST SIGNAL [Nx64kb/s] <b>Transmit</b> [PDH/DSn] <b>STRUCT'D SETTINGS</b> TEST SIGNAL [Nx64kb/s]
Setting Receive N X 64 kb/s Structured Payload/Test Signal	<b>Receive</b> [SDH] <b>STRUCT'D PAYLOAD</b> TEST SIGNAL [Nx64kb/s] <b>Receive</b> [PDH/DSn] <b>STRUCT'D SETTINGS</b> TEST SIGNAL [Nx64kb/s]

## Selecting and Using Signal Features (cont'd)

Inserting an External PDH Payload/Test Signal	<b>Transmit</b> [SDH] <b>STRUCT'D PAYLOAD</b> 2M PAYLOAD [INSERT 2Mb/s]
	<b>Transmit</b> [PDH/DSn] <b>STRUCT'D SETTINGS</b> 2M PAYLOAD [INSERT 2Mb/s]
Dropping an External Payload/Test Signal	<b>Receive</b> [SDH] <b>STRUCT'D PAYLOAD</b> 2M PAYLOAD [DROP 2Mb/s]
	<b>Receive</b> [PDH/DSn] <b>STRUCT'D SETTINGS</b> 2M PAYLOAD [DROP 2Mb/s]
Adding Errors & Alarms at the SDH Interface	<b>Transmit</b> [SDH] <b>TEST FUNCTION</b> TEST FUNCTION [SDH] [ERR & ALARM]
Adding Errors & Alarms to the PDH Interface/PDH Payload	<b>Transmit</b> [SDH] <b>TEST FUNCTION</b> TEST FUNCTION [PDH PAYLD] [ERR & ALARM]
Using FEAC Codes in the HP 37718/9A	<b>Transmit</b> [PDH/DSn] <b>TEST FUNCTION</b>
Setting PDH Spare Bits	<b>Transmit</b> [SDH] <b>TEST FUNCTION</b> TEST FUNCTION [PDH PAYLD] [SPARE BITS]
Adding Pointer Adjustments	<b>Transmit</b> [SDH] <b>TEST FUNCTION</b> TEST FUNCTION [SDH] [ADJUST PTR]
Using Pointer Graph Test Function	<b>Receive</b> [SDH] <b>TEST FUNCTION</b> TEST FUNCTION [SDH] [PTR GRAPH]
Generating Automatic Protection Switch Messages	<b>Transmit</b> [SDH] <b>TEST FUNCTION</b> TEST FUNCTION [SDH] [APS MESSAGES]
Inserting & Dropping Data Communications Channel	<b>Transmit</b> [SDH] <b>TEST FUNCTION</b> TEST FUNCTION [SDH] [DCC INSERT]

## Making Measurements

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



## Making Measurements (cont'd)

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

## Storing, Logging and Printing

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

## Storing, Logging and Printing (cont'd)

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

## Using Instrument and Disk Storage

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

## Using Instrument and Disk Storage (cont'd)

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

## Selecting and Using "Other" Features

Coupling Transmit & Receive Settings	<b>Other</b>	FUNCTION [SETTINGS CONTROL] TRANSMITTER AND RECEIVER [COUPLED]
Suspending Test on Signal Loss	<b>Other</b>	FUNCTION [MISCELLANEOUS] SUSPEND TEST ON SIGNAL LOSS [ON]
Setting Time & Date	<b>Other</b>	FUNCTION [TIME & DATE]
Enabling Keyboard Lock	<b>Other</b>	FUNCTION [MISCELLANEOUS] KEYBOARD LOCK [ON]
Enabling Beep on Received Error	<b>Other</b>	FUNCTION [MISCELLANEOUS] BEEP ON RECEIVED ERROR [ON]
Setting Error Threshold Indication	<b>Other</b>	FUNCTION [COLOR CONTROL]
Dumping Display to Disk	<b>Other</b>	FUNCTION [LOGGING] LOGGING SETUP [CONTROL] LOG ON DEMAND [SCREEN DUMP]
Setting Screen Brightness and Color	<b>Other</b>	FUNCTION [COLOR CONTROL]
Running Self Test	<b>Other</b>	FUNCTION [SELF TEST]



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