# Contents

## About This Manual 2

# 1 HP 37717B PDH Operating Features

Introduction to PDH 1-1
HP 37717B PDH Measurement 1-2
Unstructured PDH Option UKK [USB] 1-2
Structured PDH Option UKJ [USA] 1-3
PDH Binary Interfaces Option UH3 [US7] 1-4
PDH Multiple Outputs Option UHC [US6] 1-5
HP 37717B PDH Features 1-6
Unstructured PDH (Option UKK) 1-6
Structured PDH (Option UKJ) 1-7
Binary Interfaces (Option UH3) 1-12

# 2 PDH Testing with the HP 37717B

Alarm Monitoring 2-1
Application 2-1
Default (Known State) Settings 2-1
Test Setup Procedure (Alarm Monitoring) 2-1
Start the Test (Alarm Monitoring) 2-3
Analysis of N X 64 kb/s 2-4
Application 2-4
Default (Known State) Settings 2-4
Test Setup Procedure (N X 64 kb/s Analysis) 2-5
Run the Test (N X 64 kb/s Analysis) 2-8
BERT Testing 2-9
Application 2-9

#### Contents

Default (Known State) Settings 2-10 Test Setup Procedure (BERT Testing) 2-10 Start the Test (BERT Testing) 2-12 At the End of the Test (BERT Testing) 2-12 Cross Multiplexer Testing 2-14 Application 2-14 Default (Known State) Settings 2-14 Cross Multiplexer Testing Test Setup Procedure 2-14 Continuity Check 2-16 Start the Cross Multiplexer Test 2-17 At the End of the Test (Cross Multiplexer Testing) 2-18 FAS Monitoring 2-19 Application 2-19 Default (Known State) Settings 2-19 Test Setup Procedure (FAS Monitoring) 2-19 Start the Test (FAS Monitoring) 2-21 At the End of the Test 2-22 Frequency Measurement 2-23 Application 2-23 Default (Known State) Settings 2-23 Test Setup Procedure (Frequency Measurement) 2-23 Run the Test (Frequency Measurement) 2-24 At the End of the Test (Frequency Measurement) 2-24 Frequency Offset Tolerance 2-25 Application 2-25 Default (Known State) Settings 2-25 Test Setup Procedure (Frequency Offset Tolerance) 2-25 Continuity Check 2-27 Run the Test (Frequency Offset Tolerance) 2-28 At the End of the Test 2-28 Multiplexer Testing 2-29 Application 2-29

### Contents

Default (Known State) Settings 2-29

Multiplexer Test Setup Procedure 2-29

Start the Multiplexer Test 2-33

At the End of the Test (PDH Multiplexer) 2-33

Round Trip Delay 2-34

Application 2-34

Default (Known State) Settings 2-34

Test Setup Procedure (Round Trip Delay) 2-34

Continuity Check 2-36

Start the Test (Round Trip Delay) 2-36

M2100, M2110, M2120 Analysis 2-37

Application 2-37

Default (Known State) Settings 2-38

Test Setup Procedure M2110 Analysis 2-38