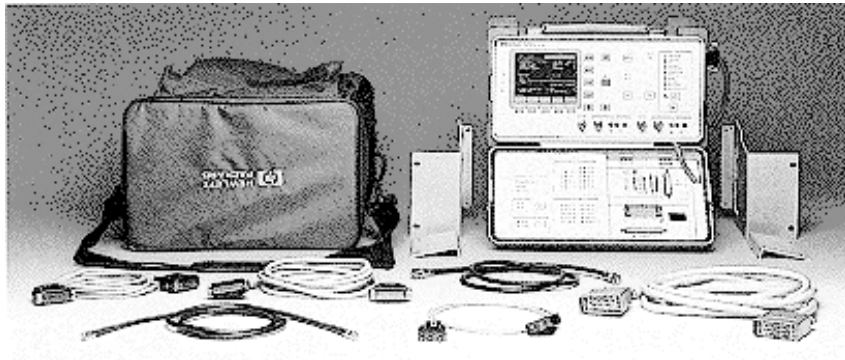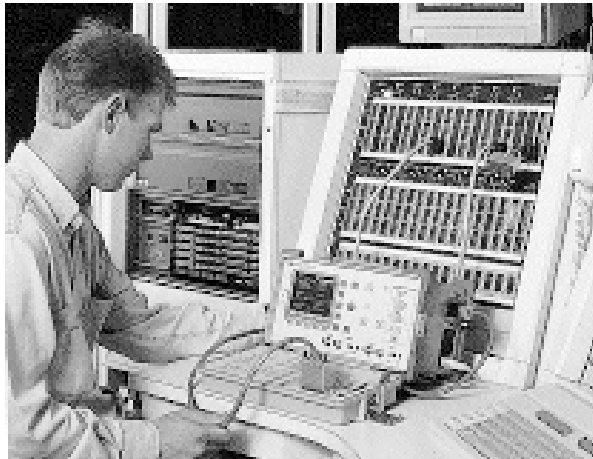# HP 37722A telecom analyzer
HP 37732A telecom/datacom analyzer

Configuration guide

Introduction

The HP 37722A telecom analyzer is an easy-to-use, lightweight field-portable test set for in-service and out-of-service bit error and signal measurement on CEPT digital circuits and services. The HP 37722A analyzer provides framed/unframed pattern generation and measurements at 2 Mb/s. Also, it offers many other features to help increase productivity and network uptime:

- $n \times 64$ kb/s testing
- timeslot monitor including all signaling bits display
- timeslot access
- event-based storage in text and graphic form.

Options provide framed/unframed 8 Mb/s, framed/unframed 704 kb/s, 64 kb/s timeslot access and sub-rate processing (X.50 divisions 2 and 3, and X.58).

The HP 37722A telecom analyzer is easily upgraded to the HP 37732A telecom/datacom analyzer, which combines the full telecom testing capability of the HP 37722A analyzer with datacom testing. The HP 37732A analyzer consists of the HP 37722A analyzer and the HP 15901A Option 001 datacom module.

The HP 37732A telecom/datacom analyzer provides testing at V.24, V.35, V.11/X.21-leased interfaces at rates up to 2 Mb/s. It also provides a full range of BER measurements:

- control-circuit timing analysis with transitions diagrams on the screen
- built-in V.24 breakout box
- internal synthesizer
- event-based storage in text and graphic form.

The HP 37732A analyzer reduces test time and speeds problem resolution by simplifying test setup. It presents results in easy-to-read and easy-to-record ways that make it easy to pinpoint the cause of a problem.

The HP E4540A distributed network analyzer (DNA) software, for a PC or laptop operating with Microsoft Windows®, can be used to remotely control the HP 37722A telecom analyzer or HP 37732A telecom/datacom analyzer over modem links from a local support center.

Options available for both analyzers

HP 37722A telecom analyzer

Includes front panel cover (with space for power cord), power cord and operating and calibration manual. Test cables not included, choose from accessories section on page 4.

HP 37732A telecom/ datacom analyzer

Includes power cord, six V.24 patch wires for breakout box, D-37 to D-15 convertor, operating and calibration manual. Test cables not included, choose from accessories section on page 4.

Option 002: Framed/unframed pattern generation and measurements at 8 Mb/s.
Option 003: Framed/unframed pattern generation and measurements at 704 kb/s.
Option 004: Replaces four unbalanced BNC connectors with small Siemens connectors.
Option 005: Testing of sub-64 kb/s data signals to ITU-T X.50 and X.58; timeslot access; tone generation and measurement.
Option 006: Timeslot access, and tone generation and measurement.
Option 010: Relative frequency and bit slips.

Option 015: Combines options 010/005.
Option 016: Combines options 010/006.
Option 210: Adds ITU-T M.2110 and M.2120 analysis.
Option 908: Rack mount kit.

Option USS: Distributed network analyzer firmware (needs HP E4540A software).

Options 005 and 006 cannot be ordered together.

Local language versions of displays

Option L01: French.
Option L02: Italian.
Option L03: Spanish.

Special options

Option B12: Battery power source (rechargeable)
Note that Option B12 cannot be ordered with options 010, 015 and 016.
Option H02: HP-IB remote control instead of RS-232-C.

Manuals

Option 915: Service manual.
Option 910: Extra operating and calibration manual.

Extended warranty

Option W30: 2-year extended hardware support beyond the standard 3-year return-to-bench warranty.

HP 37732A telecom/datacom analyzer

Accessories

Datacom module

HP 15901A Option 001

(HP 37722A analyzer only):
Replaces standard HP 37722A analyzer lid and adds error measurement, control circuit analysis and V.24 breakout functions. Includes V.24, V.11/ X.21-leased (via D-37 to D-15 convertor) and V.35 interfaces at rates from 50 b/s to 2.048 Mb/s.

HP 15710A: Soft fabric carrying case with carrying handle, shoulder strap and extra space for manuals, test cords, etc.

HP E4540A DNA software

HP E4540A distributed network analyzer software for PC. *For more information, ask your local HP sales office for brochure 5964-2240E.*

Printers

HP 15730A: Lightweight, battery-operated thermal printer complete with 230 Vac adapter.

HP 15733A: Lightweight, battery-operated thermal printer complete with 110 Vac adapter**.**

Cables

HP 15512A: 1 m (3 ft) test cable with two Siemens 3-pin male connectors.

HP 15525A: 1.3 m (4 ft) coaxial test cable with two BNC unbalanced 75 ohm connectors.

HP 15525A Option 003: 1.3 m (4 ft) coaxial test cable with two small Siemens unbalanced 75 ohm connectors.

HP 15510A: Protective monitor probe with BNC connectors for 75 ohm unbalanced systems.

HP 15511A: Protective monitor probe with 3-pin Siemens connectors for 120 ohm balanced systems.

HP 92204S: 1.2 m (4 ft) 25-way cable with both male and female 25-pin (V.24) connectors at each end.

HP 15692A: 3 m (10 ft) cable with male 37-pin (V.11) connectors at each end.

HP 15708A: 3 m (10 ft) cable with male V.35 connectors at each end**.**

HP 15714A: 2 m (6 ft) printer cable (25-pin male to 25-pin male connectors) to connect an HP 37722A or 37732A to an HP 2225D ThinkJet (RS-232) printer.

HP 15746A: 1 m (3 ft) printer cable (25-pin male to 25-pin male connectors) to connect an HP 37722A or 37732A to an HP 15730A or 15733A thermal printer**.**

For more detailed information on the HP 37722A and 37732A analyzers, refer to brochure 5965-3192E and technical specifications 5965-3193E.