

TELECOMMUNICATIONS & DATA COMMUNICATIONS TEST

Signaling Test Set

HP 37900D

- Multilink tester for network signaling (No. 7 and ISDN)
- Message sequence tracing
- Text decoding of level-2, level-3, and level-4 data
- Optional programmable emulation to network devices



HP 37900D

HP 37900D Signaling Test Set

This high-performance, multilink network signaling tester is used to test Signaling System No. 7 and ISDN protocols simultaneously. It provides slots for four 2.048-Mb/s, GSM TRAU, 1.544-Mb/s, V.35/DS-0/DS-0A, or BRI signaling interface cards [or for two RS-232-C plus RS-449 (422) signaling and interface card pairs].

The base HP 37900D signaling test set provides No. 7 monitor-only capabilities on up to two signaling interfaces. Options allow control of up to four signaling interfaces, addition of ISDN and emulation capabilities, and monitoring of the interaction between an HP 8922G and a GSM mobile under test.

Features

The HP 37900D is a portable test set capable of monitoring up to four bidirectional links simultaneously or emulating up to eight links.

Monitoring

The monitoring capabilities allow signaling events to be followed as they happen or signaling data to be recorded for later in-depth analysis.

Real time

- Activity and customizable message-decoding displays
- Triggers, filters, or tracing facilities control data collection

Post logging

- Data management facilities (searches, selective views, replays, statistics, and message sequence traces)
- Text decoding of data on levels 2, 3, and 4 for No. 7 or ISDN

Emulation

The emulation capabilities allow the HP 37900D signaling test set to test the response of signaling equipment to specified messages or message sequences. Following user-written tests the HP 37900D can generate and receive No. 7 and/or ISDN messages. For each test, users can define up to 300 specific messages plus real-time message modifications. All signaling events (including unexpected events) during a test are time-stamped and recorded in a test log. Additionally, a test sequencer allows unattended testing.

HP 37900D: A Versatile Tester

This portable, multilink test set is an ideal troubleshooter for maintaining signaling equipment and software for networks. Optional capabilities allow the HP 37900D to simplify design verification or cross-switch testing. It is also used for conformance, compatibility, or regression testing.

Specifications

Size: 370 mm W × 190 mm H × 480 mm D (14.5 in × 7.5 in × 18.9 in)
Weight: Net, 13 kg (27 lb); shipping, 22 kg (46 lb)

Basic Characteristics

RAM buffer for logging: 2 MB (expandable to 6 MB)

Built-in hard disk: 52 MB

Flexidisk drive: 3½ in (1.44 MB)

Level-1 status: Front-panel LEDs (plus alarm analysis in software)

Monitor

Capture performance: 100% MSUs per link (each direction)

Time stamp for logged data: 1-ms accuracy

Triggers, filters, traces: Include triggering on data on levels 2, 3, or 4 and erroneous SUs and filtering of specified SUs or events (filtering of PCR links also available)

Text decodes (No. 7): CCITT Red Book and Blue Book, No. 7 national variants and applications, GSM, NMT 900

Text decodes (ISDN): Q.921 and Q.931 (Blue Book), Abis, ISDN national variants

Emulation

Message generation performance: 100% MSUs

Real-time message manipulation: Yes

Time-stamped test log: Yes

Text decoding of test log: Yes

Ordering Information

Please contact your local Hewlett-Packard sales and support office. See page 665.