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 capabilties 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.

Test Equipment Solutions Datasheet

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as spectrum analyzers, signal generators, oscilloscopes, power meters, logic analysers etc from all the major suppliers such as Agilent, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. As such, we fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 2 year warranty. Our staff have extensive backgrounds in T&M, totalling over 150 years of combined experience, which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, covering the cost of warranty returns BOTH ways (plus supplying a loan unit, if available) and supplying a free business tool with every order.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based near Heathrow Airport in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

Test equipment Solutions Ltd
Unit 8 Elder Way
Waterside Drive
Langley
Berkshire
SL3 6EP

T: +44 (0)1753 596000
F: +44 (0)1753 596001

Email: info@TestEquipmentHQ.com
Web: www.TestEquipmentHQ.com