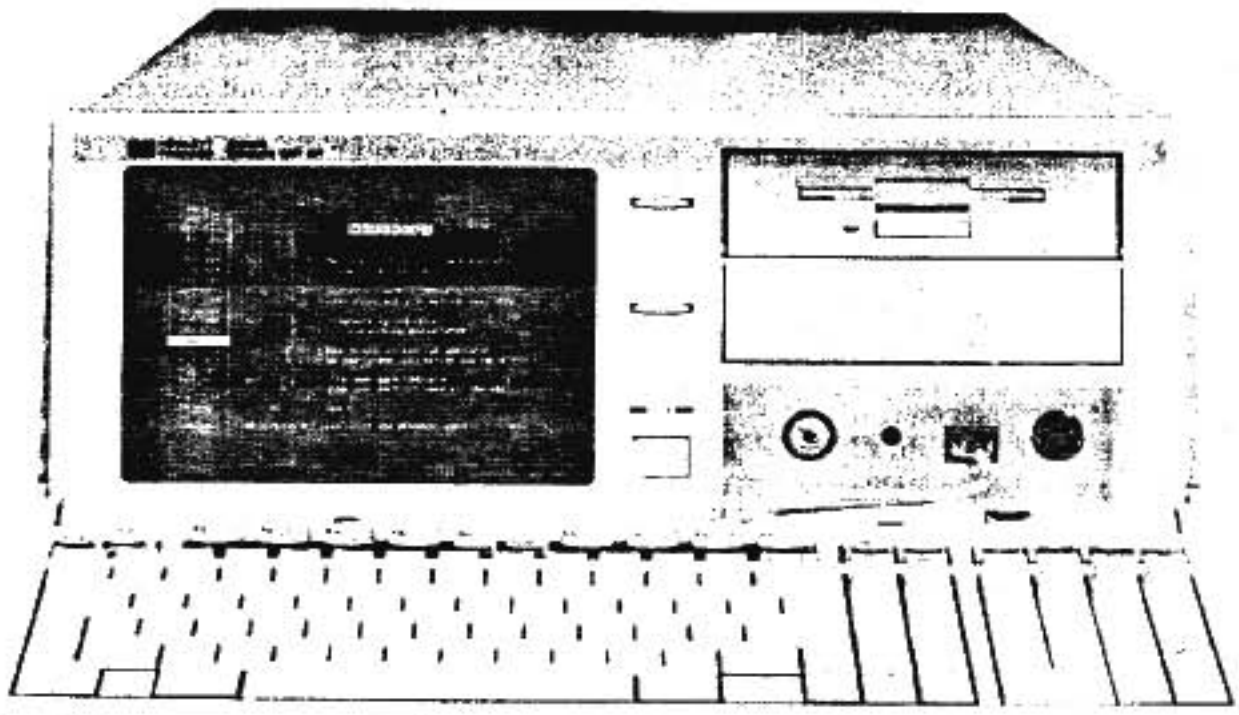
DATA COMMUNICATIONS TEST EQUIPMENT

Signaling Test Sets

HP 37900C, 37900B

- Multi-link testers for common-channel Signaling System No.7
- Call tracing
- Text decoding of level 3 and 4 data (optional user-defined decoding)
- Programmable No.7 device emulation



HP 37900C

HP 37900B/C Signaling Test Sets

The HP 37900C signaling test set is a high-performance solution for testing the demanding No.7 common-channel signaling protocol (Signaling System No.7). The HP 37900C is capable of monitoring two or emulating four bi-directional No.7 signaling links.

The HP 37900B is a modular No. 7 test set consisting of a workstation, signaling link processors, and dedicated software. The capabilities are similar to the HP 37900C, but the HP 37900B can monitor four and emulate eight bi-directional links simultaneously.

Features

The major features of this test set include non-intrusive monitoring and recording of signaling messages on signaling links; optional interfaces for datacom and telecom applications; real-time and post-analysis of No.7 data; text decoding of level 3 & 4 data (CCITT RED/BLUE books and, optionally, national variants such as ANSI/BELLCORE SS7, BTNR 167, and applications such as GSM, CLASS and ABS); emulation of No.7 devices for feature testing.

Assessing No.7 Performance

The HP 37900B/C simplifies the manufacture, qualification or maintenance of No.7 equipment or software.

The non-intrusive monitoring capabilities of the HP 37900B/C allow troubleshooting and assessing the performance of No.7 signaling links. For example, real-time analysis of signaling activity, through dynamic display of loading levels and error rates, allows problems to be quickly assessed. Sophisticated data triggers and filters can readily be created to control the logging of data so that only useful data is recorded. In addition, the call trace facilities can obtain the No.7 messages related to a specific call.

Interpretation of logged signaling messages is straightforward; the data can be automatically decoded directly to text. (Optional software is available for customized text decodes.) Powerful search, selective view, and display facilities aid the examination of logged data, simplify investigations, and minimize troubleshooting.

A simple programming language - optimized to send, receive, and validate message signal units (MSUs) - speeds the creation of conformance, acceptance or regression emulation tests.

Users define messages in a catalog of messages that is separate from the test script. Messages captured while monitoring can also be transferred to the catalog and edited as required. To simplify testing further, the HP 37900 automatically handles level 2 operations (including signaling link alignment) and, optionally, level 3 operations sufficient to keep the link in service. During a test, the HP 37900B/C generates or responds to signaling messages on the No.7 links, and allows users to follow the progress of the test while it is running. On completion, users obtain a report of the signaling interactions for fault tracing or test performance documentation.

Specifications

RAM buffer for logging: 2.5 Mbyte (expandable to 6.5 Mbyte)
Built-in disc: 20 Mbyte 37900C; 40 Mbyte 37900B
Monitor
Capture performance: 100% MSUs per link (each direction)
Timestamps for logged data: 1 millisecond accuracy
No.7 specific triggers and filters: Include triggering on level 2, 3 or 4 data, and erroneous SUs; and filtering out of FISUs, LSSUs or specified MSUs
Emulate
Message generation performance: 100% MSUs
Messages per catalog: 300
Save/retrieve catalogs from disc: Yes

Ordering Information

Please contact your local Hewlett-Packard Sales & Support Office.
See page 737.