

DIGITAL TRANSMISSION TESTERS

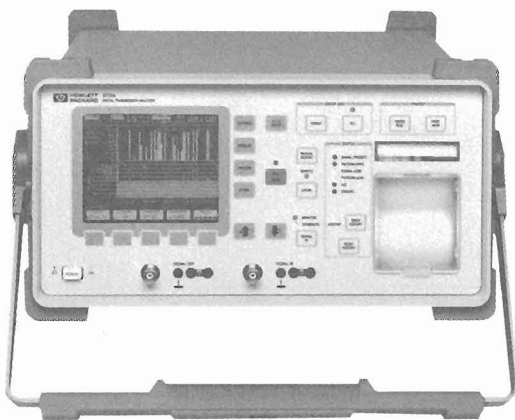
Transmission Analyzer, Transmission Impairment Measuring Sets (TIMS)

HP 37721A, 4934A

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- Bit and code error testing at 704 kb/s, 2, 8, 34 and 140 Mb/s
- In-service frame alignment signal (FAS) testing
- Portable, lightweight, rugged
- Text and graphic results on large display
- Remote control, frequency offset and measurement, multiple outputs, binary interfaces

- Complete analog testing to North American and CCITT standards
- Testing of voice-grade data circuits, program circuits, metallic digital circuits
- Six-hour battery operation (optional)



DESIGNED FOR
HP-IB
SYSTEMS

HP 37721A

HP 37721A Digital Transmission Analyzer

The HP 37721A digital transmission analyzer is a portable, lightweight, rugged test set providing bit, code, and FAS error testing at the European CEPT rates of 704 kb/s, 2, 8, 34, and 140 Mb/s. It measures error performance to CCITT Recommendation G.821, with interfaces to G.703.

A key feature of the HP 37721A is its ease of use: the autoseup facility automatically configures the test set to the incoming data; nine stored setups ensure that required test parameters are instantly available; graphic display of results shows error counts, error seconds, and alarms at a glance; and a range of logging options to an internal or external printer provides customized hard-copy proof of results.

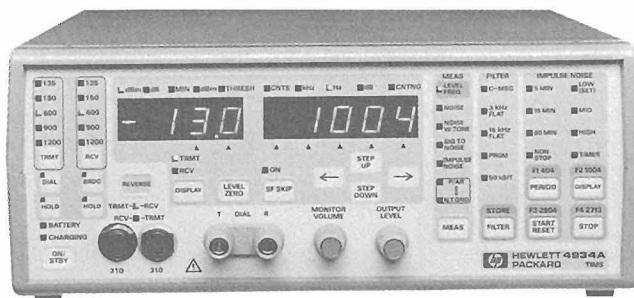
Option 001 provides remote control via RS-232 and HP-IB interfaces and adds the ability to log results to an HP ThinkJet. Multiple outputs in Option 002 enable simultaneous loading of four channels of a multiplexer or digital radio with only one test set. With Option 003, up to 100 ppm of frequency offset is provided at all rates to evaluate clock-recovery circuits. Option 004 provides binary TTL/ECL interfaces with external clock input for telecom and general-purpose applications. Option 005 fully checks frame signals in-service at 140, 34, 8, and 2 Mb/s.

Applications

- Maintenance of digital networks (PTTs, other network operators)
- Installation of digital networks (PTTs, network operators, manufacturers)
- Long-term unattended monitoring with error performance analysis based on CCITT Recommendation G.821

Ordering Information

HP 37721A Digital Transmission Analyzer	Price \$8,920
Opt 001 Remote Control	+\$715
Opt 002 Multiple Outputs	+\$1,900
Opt 003 Frequency Offset	+\$1,190
Opt 004 Binary Interfaces	+\$2,000
Opt 005 FAS Error Testing	+\$2,775



HP 4934A

HP 4934A TIMS

The HP 4934A transmission impairment measuring set (TIMS) increases installation and maintenance productivity for telephone companies and service providers through its ease of use, portability, and ruggedness. Measurements are to IEEE 743 specifications:

- Level/frequency up to 110 kHz
- Noise and noise-to-ground
- Noise-with-tone and signal-to-noise ratio
- Three-level impulse noise
- P/AR

Optional battery with typical 6 hours of operation

HP 4934A J01/J02 TIMS

The HP 4934A TIMS Option J01 and J02 are versions of the instrument with measurements for installation and maintenance of voice frequency or wideband leased lines to CCITT specifications. Option J01 is for countries with 820 Hz holding tone and Option J02 is for countries with 1020 Hz holding tone.

Measurements are to CCITT specifications:

- Level/frequency to 110 kHz
- Circuit noise
- Noise-with-tone and signal-to-noise ratio
- Three-level impulse noise (quiet or tone)

Optional battery with typical 6 hours of operation

Ordering Information

HP 4934A TIMS , including Front-Panel Cover, Power Cord, 2 HP 15513A Test Cords (with WECO 310 jack plugs)	Price \$3,545
Opt 001 Battery Pack with Built-In Charger	+\$390
Opt 010 Deletes Test Cords	-\$105
Opt J01 Replaces North American Features and Connectors with CCITT; 820 Hz Holding Tone; Deletes Test Cords	+\$665
Opt J02 Same as J01, except 1020 Hz Holding Tone	+\$665

Accessories

HP 15513A 1 m Cable, WECO 310 Jack Plug Each End	\$165
HP 18134A Vinyl Carrying Case	\$160
HP 18182A 1.5 m Cable, WECO 310 Jack Plug to Alligator Clips	\$70

For the most current prices and product information, contact your local Hewlett-Packard sales office—see page 691.

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