

DATA COMMUNICATIONS TEST EQUIPMENT

Telecom/Datacom Test Sets

HP 37732A, 37711A

Test Equipment Depot
99 Washington Street
Melrose, MA 02176-6024

- Combined telecom and datacom testing in one analyzer; no need for separate test sets or plug-ins
- Eight interfaces in one analyzer
- Powerful results storage without using printer
- Rugged, portable, easy to use



HP 37732A

HP 37732A Telecom/Datacom Analyzer

The HP 37732A is a lightweight, field-portable, and rugged test set that combines the full telecom testing capability of the HP 37722A digital telecom analyzer (see page 585) with datacom testing. The HP 37732A telecom/datacom analyzer consists of the HP 37722A and the HP 15901A Option 001 datacom module.

The HP 37732A 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/BLER measurements; control-circuit timing analysis with transition diagrams on the screen; a built-in V.24 breakout box; and an internal synthesizer. It offers 80 days' results storage in text and graphic form.

The HP 37732A 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.

Applications

- Installation of digital telecom circuits and services
- Long-term network monitoring
- Maintenance and troubleshooting

Specifications

Telecom testing, remote control, power supply, and size specifications as HP 37722A (see page 585).

Datacom interfaces: V.24, V.35, V.11/X.21-leased

Data rates: 50 b/s to 2.048 Mb/s (synchronous: built-in synthesizer); 50 b/s to 19.2 kb/s (asynchronous)

V.24 breakout: Patch points, monitors, voltage sources, and switches

V.11/V.35: Activity indicators on data, clock, and control circuits

Test patterns: 63-bit, 511-bit, 2047-bit, $2^{15} - 1$, $2^{20} - 1$, all 1s, all 0s, 3 to 16-bit user-definable word, FOX word

Measurements: Errors, BER, blocks, block-errors, BLER, error seconds, % EFS, Tx and Rx frequency, alarm seconds, clock slips, alarms, G.821 analysis

Control-circuit timing: Measures times between selectable start/stop events; timing range 100 ms, 1s, 10s

Transition diagrams: For RTS, CTS, DTR, DSR and DCD

Weight: 5.9 kg (12.5 lb)

Ordering Information

	Price
HP 37732A Telecom/Datacom Analyzer	\$8,280
Opt 001 Time Slot Access	+ \$670
Opt 002 8 Mb/s (unframed)	+ \$340
Opt 003 704 kb/s (framed and unframed)	+ \$560
Opt 004 Small Siemens Connectors	\$0
Opt 005 Sub-Rate Processing	+ \$1,110

- Combined T1 & datacom testing up to 1.5 Mb/s; no need for separate testers or plug-in
- Four datacom interfaces in one
- Powerful results storage and printer
- Rugged, portable, easy-to-use

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HP 37711A

HP 37711A T1/Datacom Test Set

The HP 37711A tests at T1 (DSX and line), RS-232, RS-449 (balanced), and V.35 interfaces. The instrument consists of the HP 37701A T1 tester (see page 587) plus the HP 15901A datacom module (available separately for existing HP 37701A users). In addition to a full range of BER tests, the HP 37711A performs timing analysis on interface control leads, with transition diagrams on the screen, and it has results storage and histogram alarm/results presentation on the screen.

Applications

- T1 and datacom installation
- Long-term network monitoring
- Troubleshooting and service restoration

Specifications

T1 remote control, power supply, and size specifications as HP 37701A (see page 587).

Datacom interfaces: RS-232, RS-449, V.35, DTE, or DCE

Data rates: 600 b/s to 1.544 Mb/s (synchronous: built-in synthesizer); 50 b/s to 19.2 kb/s (asynchronous)

RS-232 breakout: Patch point, monitors, voltage sources, and switches

RS-449/V.35: Activity indicators on data, clock, and control circuits

Test patterns: 63, 511, 2047, $2^{15} - 1$ PRBS, QRSS, (all invertible); all 1s, 1010 ..., 24-bit word, FOX message

Measurements: Errors, BER, blocks, block errors, BLER, error seconds, % EFS, clock slips, alarms, Tx and Rx frequency, G.821 analysis

Control-circuit timing: Measures times between selectable start/stop events; timing range 1s, resolution 0.1 ms

Transition diagrams: For MON, RTS, CTS, DTR, DSR and DCD

Weight: 6 kg (13 lb)

Ordering Information

	Price
HP 37711A T1/Datacom Test Set	\$7,500
Opt 001 Pulse Shape and Wander/Clock Slips Measurements	+ \$550
Opt 002 Built-in Battery Operation	+ \$750
Opt 004 n x 56/n x 64 kb/s T1 Measurements	+ \$1,200

www.testequipmentdepot.com

800-517-8431

781-665-0780 FAX