

Specifications

Weight (including interface pod and cables)

Net Wt: 7.0 kg. (15.4 lbs.)
Shipping: 12.5 kg. (27.6 lbs.)

Size

Height: 16.0 cm, width 27.9 cm, depth 34.3 cm. (6.3 x 11.0 x 13.5 in.)

Temperature

Operating: 0 °C to +40 °C (+32 °F to +104 °F) **
Storage: -40 °C to +75 °C (-40 °F to +167 °F)

** The disc drive and optional extended memory should only be operated at temperatures of +5 °C to +40 °C (+41 °F to +104 °F) and stored at +4 °C to +53 °C (+39 °F to + 127 °F).

Power Requirements

100 to 240 Vac, +-10%; 48 to 66 Hz single phase.
Typical less than 20 VA, maximum less than 35 VA.

Electromagnetic Capability

Complies with VDE 0871/6.78 Limit B, and is licensed per FTZ 1046/84.

Operating Characteristics

Operating characteristics are features and capabilities that the protocol analyzer exhibits. They are not specifications.

Protocols

X.25, SNA (opt.), SDLC, BSC, HDLC, IPARS, X.21 (opt), DDCMP and most character asynchronous or synchronous protocols.

Data Transmission Modes

Synchronous, asynchronous, NRZI, and externally clocked NRZI.

Data Transfer Rates (bps)

50, 75, 110, 134.5, 150, 200, 300, 600, 1200, 1800, 2000, 2400, 3200, 3600, 4800, 7200, 9600, 12000, 14400, 16000, 19200, 38400, 48000, 56000, 64000 and EXTERNAL for synchronous data lines.

COPs will have different maximum transfer rates depending on the protocol.

Not Supported: Asynchronous (bps): 12000, 16000, > 19000
 NRZI (bps): 50, 12000, 16000
 Async BERT (bps): 12000, 16000,
 teletext 1200/75

Data Codes

ASCII, EBCDIC, Baudot, Six Bit Transcode, IPARS, EBCD, and Hex. Also JIS-7, JIS-8, and EBCDIK (with Katakana option).

Capture Memory

32 Kbytes of nonvolatile RAM and optional extended memory. For storing data characters, timing and lead status.

Mass Storage

Microfloppy disc stores 613 Kbytes of data, timing information, setups, and programs.

Lead Status

The status of five control leads are stored for each interface. They are RTS, CTS, DTR, DSR, and CD for RS-232C/V.24 and V.35 interfaces; CS, RS, RR, TR, and DM for RS-449 interface; T, R, I, and C for X.21 interface.

Highlights

Most recent 63 trigger events.

Character Framing

5, 6, 7, or 8 information bits, plus parity. For asynchronous systems select 1, 1.5, or 2 stop bits per character.

Error Checking

CRC-CCITT, CRC-CCITT preset 0, CRC-16, CRC-12, CRC-6, LRC, and parity.

Triggers

63 triggers for characters, errors, interface lead transitions and softkeys.

Timers

Five, each with a maximum count of 65535 msec. Resolution 1 msec.

Counters

Five, maximum count 65535.

Keyboard

Full ASCII keyboard with six softkeys and cursor control.

Parity

Odd, even, none, ignore.

Display

High resolution 13 cm (5 in) diagonal with 16 lines and 32 characters per line.

Display Formats

DTE data over DCE data, Data and Lead Status, DTE data only, DCE data only, Frame and Packet decode, Packet only decode, and X.21 data and state.

Send Strings

255 characters per string maximum, 1750 characters total.

Remote Capability

Complete unattended remote control. Can be controlled by another HP protocol analyzer or computer to transfer data, setups, and test programs.

Bit Error Rate Testing

Simultaneously measures bit errors, block errors, errored seconds, and percent error free seconds for synchronous, asynchronous or isochronous data links.

- Block Size: 511, 1000, 2047.
- Patterns: 63, 511, 2047 or 4095 pseudo random sequence.
- Character Framing: Select 5, 6, 7, or 8 bits per character and parity.
- Inject Errors Function: Single errors or bursts of errors.

Clock Speed Accuracy

For BERT operation, clocks provided on the physical interface are accurate to 0.01%.

For other operations, the following clock speeds provided on the physical interface are accurate to 0.01%: 75, 110, 134.5, 150, 200, 300, 600, 1200, 1800, 2400, 3200, 3600, 4800, 7200, 9600, 14400, 19200, 38400, 48000, 56000, and 64000.

For your convenience, the following additional clock speeds have been provided, however the clock accuracy is not specified: 50, 2000, 12000, and 16000.

Accessories

Accessories Supplied

Power Cord,	See Appendix D
Pod-Instrument Cable (for all pods)	HP 04951-61618
Operating Manual	HP 04952-90010
Getting Started Manual	HP 04952-90016
Transportation Disc	HP 5060-7177
Extra Fuse	HP 2110-0758

Problem Solving Accessories:

HP 18260A: X.21 and RS-232C/V.24 Interface Kit.

Includes interface pod and utility disc.

HP 18261A: SNA Analysis software

HP 18263A: 3270 Installation and Maintenance Software

HP 18264A: X.25 and SNA Level Link Level Statistics

HP 18265A: DDCMP Analysis

HP 18266A: Enhanced X.25 Analysis

HP 18348A: HP 4952A Customer Training Course

This is a highly interactive, hands-on one day course designed to provide an in-depth knowledge of the full feature set of the HP 4952A. Ask your local sales representative for information about location and availability.

HP 18174A: RS-449/422A/423A Interface Pod

HP 18177A: V.35 Interface Pod.

HP 18179A: RS-232C/V.24 Interface Pod with complete breakout box.

HP 18180A: Combination RS-232C/V.24 and RS-449/422A/423A Interface Pod.

HP 18190A: Soft vinyl carrying case.

04952-69501: Extended Memory plus Retrofit Kit

HP 92192A: Box of 10 double-sided discs.

HP 2225D: RS-232C/V.24 Thinkjet Printer

HP 9211-1290: Hard transit case

One of the cables listed below is included in the appropriate interface pod.

RS-232C/V.24 Y-ribbon cable	HP 18173-61602
RS-449 Y-ribbon cable	HP 18174-61601
V.35 Y-ribbon cable	HP 18177-61601

Options

- Option **002** Extended Memory Plus
 3/4 Mbyte extended capture buffer
 128 Kbyte non-volatile program RAM
- Option **003** Katakana (JIS 7, JIS 8, EBCDIK) data codes
- Option **101** Adds accessory 18174A (RS-449/422A/423A)
- Option **102** Adds accessory 18180A (Combination RS-232C/V.24 and RS-449/422A/423A).
- Option **103** Adds accessory 18179A (RS232C/V.24 with complete breakout box)
- Option **104** Adds HP 18260A (Combination X.21 and RS-232C/V.24).
- Option **105** Adds HP 18177A (V.35).
- Option **500** Japanese Manual
- Option **501** French Manual
- Option **502** German Manual
- Option **916** Extra operating manual

- Option **W30** 3 year extended hardware support. Provides 2 additional years of return-to-HP hardware support (for 2nd and 3rd years).

- Option **+N00** Software Notification Service for all HP Protocol Analyzers.

Interface Accessories

HP 18174A (RS-449/422A/423A):

Balanced RS-422A drivers. Interface activity indicators: DS, RD, ST, RT, RS, CS, TR, DM, and RR.

HP 18177A (V.35):

Interface activity indicators: DTE, DCE, SCE, SCT, SCR, RS, DTR, CS, DSR, and CD.

HP 18179A (RS-232C/V.24):

Full breakout box with 25 switches. Interface Activity Indicators: DTE, DCE, TC, RC, RTS, CTS, DTR, DSR, CD, ETC.

HP 18180A (RS-232/V.24 and RS-449/422A/423A):

Activity indicators are the same leads as HP 18179A and HP 18174A.

HP 18260A (RS-232/V.24 and X.21):

Interface activity indicators: DTE, DCE, TC, RC, RTS, CTS, DTR, DSR, CD for the RS-232 portion, and R, T, C and I for the X.21 portion.