2748B High Speed Punched Tape Reader

Features

- **Reading speed to 500 characters-per-second**
- **Includes interface and all software for use with HP computer systems**
- **Error-free reading of both opaque and oiled tape without adjustment**
- **Easily installed with all HP computers using one plug-in interface card**
- **Simple operation and rugged construction for long life**
- **Software for operation with DOS-M, MTS, RTE, and MPE**

The high speed of the 2748B permits greatly reduced read-in times while offering the economy and versatility of punched tape input. A significant advantage in reading accuracy is also provided by using a new compensating sensing technique. Data reliability is enhanced as each character is read only once with no overshooting of characters. Positive feedhole control and a reliable clutch/ brake mechanism ensures that the tape will stop on the character that initiates the stop. Opaque and oily tapes may be intermixed without the need for readjustment. Simple operating, rugged construction and electrically-conservative design ensures long life at top performance.

Adding a high speed tape punch to your HP 2100 or 3000 computer system is quick and easy—simply plug in one interface card and connect a cable. The software provided may then be loaded into the computer and the tape reader is ready for immediate use. Software supplied includes subroutines to simplify reader input operations. Complete diagnostic routines are also supplied for checkout of the tape reader and interface.

Specifications

READING SPEED
500 characters per second (415 characters per second when operated from 50 Hz power)

READING TECHNIQUE
Photoelectric, character-by-character

TAPE
Code: 8 level code
Width: 1 inch
Material: Any material with less than 60% transmissivity

START/STOP TIMES
Start time: Less than 6 milliseconds
Stop time: Less than 500 microseconds
          (stops on character)

CONTROLS
Load: Releases pinch roller and stops capstan for tape threading
Read: Enables all circuits for external control
Manual Advance: Advances tape when pressed
Power: Turns on reader

POWER REQUIRED
115VAC±10%, 60 Hz±5%, 240W; or 230VAC±10%, 50 Hz±5%, 240W (specify input voltage when ordering)

ENVIRONMENTAL CONDITIONS
Operating Temperature: 0° to 55°C (32° to 131°F)
Nonoperating Temperature: -40° to 75°C (-40° to 167°F)
Relative Humidity: 95% at 25° to 40°C

WEIGHT
Net Weight: 42 lb. (19,1 Kg)
Shipping Weight: 54 lb. (23,7 Kg)

DIMENSIONS
7-inch (178mm) panel height; 17-inch (432mm) wide by 16-inches (406) deep, not including panel controls and connectors.

MOUNTING
Bench-top or standard 19-inch (483mm) rack

ACCESSORIES FURNISHED
AC Power Cable, 7½ feet,   HP Part No. 8120-1378
Rack Mounting Kit,   HP Part No. 5060-8741
Accessory Kit,   HP Part No. 02748-60038

ORDERING INFORMATION

2100-Based Systems
2748B High Speed Punched Tape Reader:
12597A-002 Interface Kit for reader use with an HP computer, includes duplex register interface card, interconnecting cable, BCS driver tape, SIO driver tape, and reader diagnostic tape.

Interface Current for Operation with 2100—Series Computers
0.05A (+12V); 0.02A (-12V); 0.05A (-2V); 0.75A (+4.5V)

HP 3000 Computer System
30104A Punched Tape Reader Subsystem, 500 cps at 60 Hz or 420 cps at 50 Hz: This subsystem includes punched tape reader, interface card, cable, and all necessary subsystem software.

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