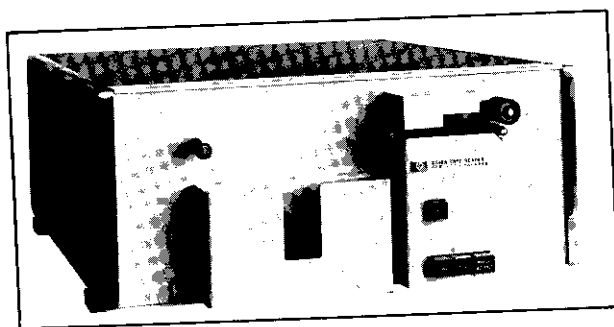# 12925A High-Speed Punched Tape Reader Subsystem

The 12925A includes the HP 2748B. The subsystem offers high-speed reading of punched paper tape for use in HP software systems.

Features

- Reading speed to 500 characters per second
- Easily connected to 2100 Series Computers with one plug-in interface card
- Error-free reading of opaque and oiled tape
- Simple operation and rugged construction for long life
- Software for BCS, DOS, MTS, SIO, and RTE
- Includes tape winder

The high speed of the 12925A subsystem permits greatly reduced read-in times while offering the economy and versatility of punched tape input.

A significant advantage in reading accuracy is provided by using a 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.

Simple, rugged construction and electrically conservative design ensure long life at top performance.

EASY INSTALLATION

Adding a high-speed tape reader to your HP minicomputer 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. 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
Width: 2.5 cm (1 in.)
Material: less than 60% transmissivity

START/STOP TIMES
Start: Less than 6 milliseconds
Stop: Less than 500 milliseconds

CONTROLS
LOAD: Releases pinch roller and stops capstan for tape reading

READ: Enables all circuits for external control

MANUAL ADVANCE: Advances tape

POWER: Turns on reader

POWER REQUIREMENTS
2748B: 115 VAC ±10%, 60 Hz ± 5%, 240W, or
            230 VAC ±10%, 50 Hz ± 5%, 240W

Interface: 0.05A (+12V), 0.02A (-12V),
            0.05A (-2V), 0.75A (+4.5V)

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ENVIRONMENTAL CONDITIONS
Temperature:

Operating: 0° to 55°C (32° to 131°F)
Storage: -40° to 75°C (-40° to 167°F)
Humidity: 95% at 25° to 40°C (77° to 104°F)

PHYSICAL CHARACTERISTICS
Weight: Net: 19.1 kg (42 lb.)
Shipping: 23.7 kg (54 lb.)
Dimensions:
Panel Height: 17.2 cm (7 in.)
Width: 43.2 cm (17 in.)
Depth: 40.6 cm (16 in.) not including panel controls and connections
Mounting: Bench top or standard 48.3 cm rack (19 in.)

ORDERING INFORMATION
HP 12925A Punched Tape Reader Subsystem
-015 230V, 50 Hz operation

HARDWARE SUPPLIED
HP 2748B High-Speed Punched Tape Reader
HP 12597-002 Interface and Cable
HP 12575C Tape Winder
Rack Mounting Kit

SOFTWARE SUPPLIED
Diagnostic Tapes:
Standard   24189-60001
24196-60001
5951-1363
12554-90026
12925-90001
Optional Software Available with the Tape Reader Subsystem:
12925-421 DOS Driver   20987-60001
-423 BCS Driver   20005-60001
-424 SIO Driver   4K 20303-60001
8K 20306-60001
12K 20327-60001
16K 20319-60001

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