"Silent 700"
electronic data terminals
from Texas Instruments

SILENT 700
electronic data terminals

30 characters per second

faster, quieter, and more reliable than conventional teletypewriters... and they reduce your communications line costs.

Silent 700 terminals print, transmit and receive data at speeds up to three times that of conventional terminals.

In typical timesharing applications, this means less computer connect time and reduced direct distance dial charges compared to 10 characters-per-second terminals.

It also permits reduced operator time at the terminal and a potential reduction in the number of terminals used.

Reliable

No preventive maintenance is required with Silent 700 terminals. Under normal usage, they will operate a year with only one or two remedial service calls. And they have a useful life expectancy several times that of mechanical teletypewriters.

TI integrated circuit electronics is the key to this reliability and long life. Mechanical elements — subject to wear and frequent adjustment — are replaced by large-scale integrated circuitry and an electronic printhead which instantly forms characters on heat sensitive paper without impact.

Fourteen different "Silent 700" terminals . . . a choice for your particular application.

Model 725 portable data terminal includes a built-in acoustic coupler and may be used anywhere a telephone and electrical outlet are available.

Quiet

As their name implies, the Silent 700 electronic data terminals are virtually silent. There's no jangle, no clatter of keys, just smooth quiet operation . . . quiet enough to be used in business offices, banks and hospitals without distraction.

Silent printing is achieved through transfer of heat to heat-sensitive paper by a 5 x 7 dot matrix, composed of 35 solid-state electronically controlled heating elements on the monolithic silicon printhead.

Beauty

All Silent 700 terminals feature an attractive, modern design that makes them acceptable in any office, even executive offices and boardrooms.

Applications Versatility

There are 14 different models of Silent 700 terminals. Included are keyboard send/receive, receive only, portable, and OEM terminals with a variety of interfaces in either BCD or USASCII codes.

Model 725 portable data terminals

The Model 725 portable data terminal unfolds new dimensions in mobility, convenience and speed to timesharing users. It is equipped with a built-in acoustic coupler, and is attractively packaged in a luggage-type carrying case.

The Model 725 allows rapid access to a remote computer anywhere a telephone and a standard electrical outlet are available.

Keyboard Send/Receive Terminals

Model 710 is operationally comparable to the IBM 1051/1052 inquiry terminal. It operates via polling, addressing or broadcasting by a remote computer and transmission control unit.

Model 715 is operationally comparable to the IBM 2741 with BCD code and is similar to the Model 710 except that buffer memory, polling response and auxiliary input/output features are not provided.

Model 720 is a KSR I/O unit with USASCII code for applications previously served only by mechanical KSR terminals. The Model 720 has the EIA RS232B serial interface; 10, 15 or 30 characters-per-second speed, and full- or half-duplex operation similar to the Model 725.

Model 723 features a parallel-by-bit data interface for hard-wired connections as a computer console terminal or other direct-wired applications not requiring a serial data interface.

Model 730 is a KSR terminal similar to the Model 720, but having the Teletype current loop interface.

Receive-Only Models

All receive-only terminals are available in either the standard case (with space for later addition of keyboard) or the new compact case. Designations for compact-case models include suffix "S" (721S, 722S and 731S).

Model 721 is a receive-only configuration of Model 720, and incorporates the EIA serial data interface for receipt of data transmission over private or public communication lines.

Model 722 is a receive-only configuration of Model 723 with a parallel-by-bit data interface. It is designed for hard-wire connection to the sources of parallel data output.

Model 731 is a receive-only configuration of Model 730. It has the current loop line interface for receipt of data via telegraph-grade lines such as used by wire services and other public and private telecommunication systems.

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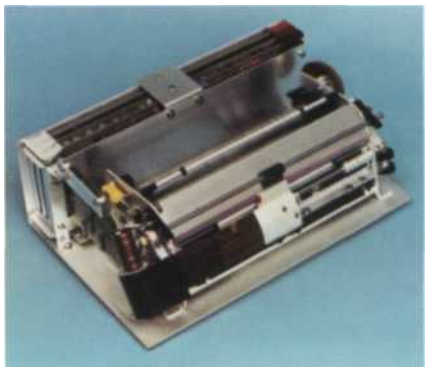

OEM Printers

Models 750 and 751 are receive-only electronic printers without enclosures for custom peripheral applications. Model 750 employs parallel-by-bit interface and USASCII code. It is designed for applications such as CRT hard-copy printers. Model 751 employs serial current-loop interface and Baudot CCITT code, and is designed for communications terminal applications.

Built-in Data Sets

DS100 Data Sets are compatible with Bell 103F data sets. They operate asynchronously up to a maximum speed of 300 baud in a half- or full-duplex mode over a 2- or 4-wire voice-grade private line.

DS201 Data Set is compatible with IBM Limited Distance Line Adapter, Type IIA1. It will operate asynchronously up to a maximum speed of 300 baud in **a** half-duplex mode over customer-provided communication facilities.

DS203 Data Set is compatible with IBM Limited Distance Line Adapter, Type IB. It provides full-duplex capability for use with the "attention" feature in Model 715 Data Terminal.

General Specifications

1. Printer:
   - A. Friction-feed platen
   - B. Line length: 8 inches (80 characters)
   - C. 10 characters/in.
   - D. 6 lines/in.
   - E. Enclosure contains space for printing paper — 3⅝ in. diameter roll
   - F. Character font — standard models print characters from 5 x 7 matrix printhead, 0.105 in. x 0.080 in. Upper and lower case alphabetic characters printed as upper case. Optional lower-case feature provides lower-case alphabet printing from 5 x 5 matrix, character size 0.0715 in. x 0.080 in.
2. Keyboard:
   Electronic keyboard prevents wear by eliminating electrical contacts. "Two-key roll over" electronically prevents transmission when two keys are depressed simultaneously
3. Printing paper:
   TI thermographic printing paper, No. 213714
4. Paper out indication:
   Last 10 ft of TI thermographic printing paper roll is color coded
5. Physical:
   - A. Terminal is self-contained. Dimensions for 720, 721, 722, 723, 730 and 731 are 17¾" wide x 18¼" deep x 6¼" high. Dimensions for 721S, 722S and 731S are 17¾" wide x 14¼" deep x 6¼" high. Dimensions for 725 are 21½" wide x 19" deep x 6½" high
   - B. Power requirements—120/240 v-ac ±10%, 50/60 Hz, 100 watts while printing
   - C. Ambient temperature —
     Operating, 15° to 40°C
     Storage, –40° to 70°C, not including paper
     Paper, 0° to 40°C
   - D. Shock —
     Operating, 0 g
     Storage and handling, 10 g
   - E. Vibration — 10 to 60 cps, 0.1 g
   - F. Humidity —
     Operating, 10% to 90%
     Storage, 10% to 90%
   - G. Weight — 32 to 38 pounds
6. Reliability and maintenance:
   - A. Solid-state IC and MOS electronics
   - B. Modular construction simplifies maintenance
   - C. Minimum moving parts; low wear
   - D. Estimated service life, 30,000 hours

Sales and Service Offices of Texas Instruments are located throughout the United States as well as major countries overseas. Contact the Digital Systems Division, Texas Instruments Incorporated, P.O. Box 1444, Houston, Texas 77001. Or call (713) 494-5115, Ext. 2126, for the location of the office nearest you.

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