

Honeywell

VIP SYSTEMS

785 SYNCHRONOUS SINGLE STATION

The 785 configuration, a member of the Honeywell Visual Information Projection (VIP) family, provides instant visual access to computer-stored data in a variety of communications environments. Utilizing the latest computer and telecommunications technology, the 785 permits increased throughput while reducing communication line costs. Under program control, the terminal can enter or retrieve data, and question, answer, and converse with any computer system in the Honeywell product line.

Allowing instant man-machine communication, the VIP station is the central component of a hardware system with applications in any industry requiring "total information access." Examples include on-line file updating in banking and insurance, inventory control for manufacturers and distributors, account status review for public utilities, and a variety of activity report applications for management. In any application, the user can compose a message, verify its accuracy, modify it if necessary, and transmit it at a rate of 2000 or 2400 bits per second (bps) to the central processor. Within a matter of seconds, an answer or an additional question, depending on the nature of the original message, flashes onto the screen and is printed on an associated page printer, if selected. A typical configuration consists of a keyboard/display terminal (KDT), a control, and various expansions and enhancements that form an integrated processing network over direct or common-carrier communication lines.

THE TERMINAL

While arranged like those of a standard office typewriter, the KDT's keys are actually high-reliability electronic switches that permit data entry, single-action entry marker positioning, and terminal command. The data keys include 26 alphabetic, 10 numeric, and 26 special characters. A sepa-

Specifications remain subject to change in order to allow the introduction of design improvements.

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HARDWARE



rate numeric pad permits adding-machine-like numeric data entry. With the entry marker control keys, the location of the next character to be entered (cursor) can be changed freely with the touch of a single key. Transfer, receive, print, and edit functions are controlled by the remaining keys. Designed as an integral unit the keyboard and display are connected by a 5-foot cable.

Manually-entered data and processor-generated inquiries and responses are displayed on a 14-inch television-like cathode ray tube. With a display area of 2024 characters (22 lines by 92 character per line) and a 60-frames-per-second refresh rate, the display projects clear, bright, easily-read information without flicker. The operator has access to all 2024 character positions.

Other terminal capabilities include:

- Multiple key depression without error.
- Vertical and horizontal line drawing.
- Automatic tab.
- Message flashing.
- Data entry repeat.

The entire keyboard/display terminal can be located within a cable distance of 1000 feet of its control.

THE CONTROL

The terminal control provides information storage between the terminal and the computing system. Featuring solid-state integrated circuitry and discrete components, the control includes a 2000- or 2400-bps synchronous line interface, central timing, logic, character generation, storage, and keyboard interface. With printer enhancements, a page printer adapter that controls printer operation is included in the control. A single control permits the operation of one terminal.

TYPE 785-1

The Type 785-1 station is a single terminal with a control. Extensions are available on an initial order or for later upgrade, with a maximum configuration of 10 Type 785-1s at a single communication terminus. By itself, the Type 785-1 is capable of polled or nonpolled communications with its associated central processor.

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Where more than one station is required, the addition of the Type 785-7, a multi-station interface unit, permits the connection of two stations at a single communication terminus. The addition of one, two, three, or four dual-channel expanders (Type 785-8), allows two, four, six, or eight stations to be connected at the same communication terminus. This configuration must be operated in a polled environment.

EXTENSIONS

- Type 785-6, a line repeater unit, permits distances larger than 1000

feet between terminals and their controls. In increments of 2000 feet and with a maximum of two line repeaters, a terminal can be moved up to 5000 feet from the control.

- Type 785-5, a direct timing source, is required for any direct cable connection between a terminal control and a processor.

Receive-Only Printers

- Type 785-2, a Model 33 printer, is a friction-fed, 10-characters-per-second, receive-only teletypewriter with an 8½

inch platen. One may be attached to a terminal control. Printing can be initiated by the associated processor or a KDT.

Keyboard Extension

- Type 785-4, a function key group, is an 8-key pad used in applications where message labels are needed to inform the processor about the incoming message. This feature permits the user to easily adapt his VIP operating procedures to the requirements of a given application package.

SPECIFICATIONS

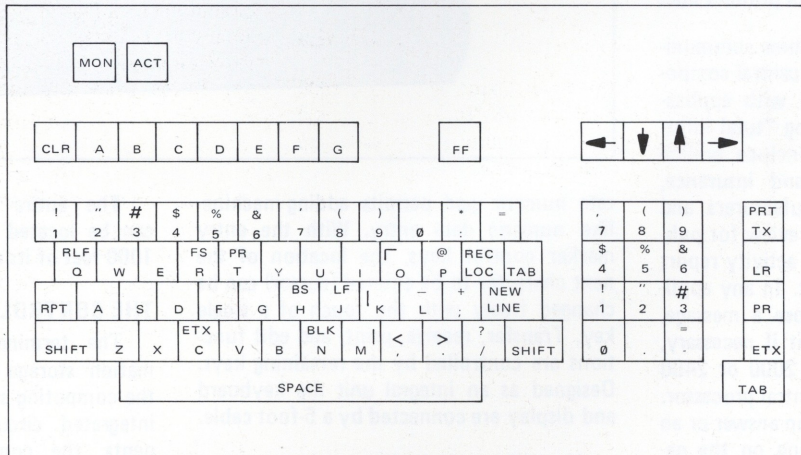
Terminal

POWER: 105 to 125 volts, 60 Hz., single-phase; 0.28 KVA
 DIMENSIONS: 28-3/8" deep 15-11/16" wide by 16-1/4" high.
 WEIGHT: 74 pounds.
 CHARACTER CAPACITY: 2024 characters.
 HEAT DISSIPATION: 800 BTU/hr.
 CHARACTERS PER LINE: 92.

CHARACTER SET: 36 alphanumeric, 26 special.

Control

POWER: 105 to 125 volts, 60 Hz., single-phase; 0.29 KVA
 DIMENSIONS: 23" high by 24" wide by 17" deep.
 WEIGHT: 145 pounds.
 HEAT DISSIPATION: 840 BTU/hr.



Standard 785 Keyboard with Type 785-4