HDS

human designed systems, inc.

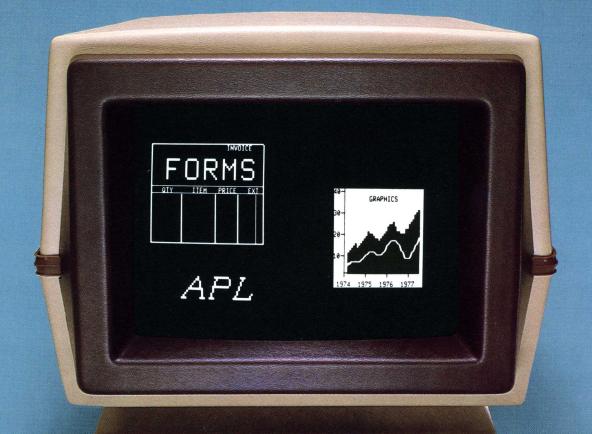
CONCEPT APL8 SERIES DISPLAY TERMINALS

The concept APL8 — an important breakthrough in 132-column APL display terminal price/performance. From Human Designed Systems. With more display, editing and communications features than ever available to APL users...and at a low price.

The concept APL8 starts with a low price, and enhances that with features not found in any other 132-column APL display terminal — at any price: • full/true overstrike APL • 128 upper/lower case ASCII • up to two additional character sets • four pages of scrollable memory for easy refer back (eight pages optional) • simplified form, bar chart, and graph generation •

continuous curve approximation • shading graphics • screen or slave print • switchable 80/132 column format (132 columns is provided without sacrificing high-resolution 80-column character display) • non-volatile memory for permanent configuration storage • windowing • programmable function keys • multiple user-selectable character sets • I/O capability for networking between multiple communications lines • large buffer and buffer overflow control for high-speed operation • self test • advanced text editing, data entry/retrieval and business graphics functionality •and many more user/human designed features providing everything needed for optimum versatility and flexibility in applications development.

- □ 128-character upper/lower case APL/ASCII
- □ APL with full, true overstrike
- ☐ Switchable 80/132 column format
- ☐ Four full pages of display memory standard; eight pages optional
- ☐ Non-volatile memory
- □ Windowing
- □ Low price
- ☐ Printer output
- ☐ Graphics
- ☐ Wide range of applications capabilities
- ☐ Attractive housing suitable for front office applications





CONCEPT APL8 SERIES DISPLAY TERMINALS

■ Concept APL8 Four-Page APL/ASCII

DISPLAY

Physical Dimensions

Size/Type

Format

Character Generation

Design Features Character Attributes

Screen Attributes

Windows

Line Drawing

Status Lines

Cursor

Tabs

Communications

KEYBOARD

Physical Dimensions

Size/Type

Design Features

Functions

Cursor Pad Control

15¼" W x 14½" H x 16½" D (38.7 cm x 36.8 cm x 41.9 cm)

12" diagonal, 9" x 6" display area, P4

white, 60 Hz

25 lines by 80 or 132 columns, within a 96 x 80 or 56 x 132 memory size (four pages). 25th line displays status information only

7 x 11 dot matrix in 10 x 12 dot array (80 columns), 5 x 9 dot matrix in 7 x 10 dot array (132 columns)

Tilt Adjustment, recessed hooded screen with full true overstrike, 128 upper/lower case ASCII characters with lower case descenders, reverse video, nondestructive underline, blink* half bright*, protection*, nondisplay (security)*. Block attribute setting for fast generation of attributes for all characters in a display area. Standard character sets include forms, curve approximation, mathematical and subscript/superscript characters.

*attributes available for all APL characters

except overstruck operators

White characters on black background or reverse and normal/half bright protected fields

Rectangular areas of display memory which effectively divide the display into multiple subscreens (maximum — four)

Basic graphic characters allow easy form and graph generation. Horizontal/vertical line drawing functions

User (configuration, cursor position, current window and mode settings), Programmer (complete status detail), Alert (self-test errors and programmable status message), Tabs and Programmable Message Characters. Displayable on the bottom line or transmittable to the host

computer

Flashing underline or flashing reverse video block selectable. Controls right, up, down, home. Absolute address reading and writing. Position cursor in current line or column

Forward and backward typewriter, form

automatic

Asynchronous 10, 11, or 12 bit code, seven or eight data bits, one or two stop bits, EIA 15 baud rates (50-9600) even/odd/no parity, parity checking of input, block/character transmission,

half/full duplex

171/2" W x 3" H x 83/4" D (44.4 cm x 7.6 cm x 22.2 cm)

91 keys with typewriter style layout numeric, cursor control, function pads (eight function keys standard)

Detached, matte finish, click positive touch, N-key rollover, autorepeat on all

Lock, bell enable/disable

Can be set to execute functions, transmit character sequences or both

STANDARD CONCEPT FUNCTIONS

General

Text Editing

Form Editing

Non-Volatile Memory

Programmable **Function Keys**

Message Characters

OPERATING MODES User/Programmer

Page/Scroll

Text/Transparent

Normal/Transparent

Auto Wraparound

Buffer Overflow Control

OPTIONS Additional Memory

Video

Shared Printer Interface

Multiple Characters Sets

Additional Function Keys

Auxiliary Communications

Communications Video Output

Foreign Version

All terminal functions are selectable from the keyboard and communications line(s) by control codes or escape sequences

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Insert character in line/page mode, delete character in line/page, clear to end of line/page, insert/delete line in page

Insert/delete character in field, clear field/all unprotected fields/screen. Create screen allows transmission of forms created offline

Permanent storage of terminal configuration and mode settings. The latent expression stored in NVM allows execution of a set of terminal commands upon power up or reset

Character sequences generated by all function keys are user modifiable. Memory is allocatable between display pages and function keys. Stored function keys sequences are executable from the communication lines

Special terminal control characters are modifiable (including the "escape" character used in command sequences)

Provides simple operation for the novice and application users while providing sophisticated capabilities to the system developer

Cursor wraparound or rolling of screen on bottom line overflow

Selects scroll mode, typewriter tabs, text editing functions or page mode, form tabs, form editing functions

Normal handling of control codes or display of their character symbols

Wraparound to next line or overwrite of last column on last column overflow

Prevents input buffer overflow through transmission of XOFF/XON characters (user specifiable)

Eight pages (192 lines x 80 columns or 112 lines x 132 columns)

Filtered Screen, Green Phospher (P31), Amber Phospher (ALA)

Allows multiple CRTs to share one printer (or other peripheral) for hardcopy of the display or terminal I/O

Up to four character sets selectable on an individual character basis including extended graphics, foreign languages, and special designs

Additional 11 function keys are available with eight associated with the function pad and three associated with the numeric

Two additional I/O interfaces for local peripheral support or remote connection 20 mA

For classroom/demonstration presenta-

Accommodation for 220/240 VAC, 50 Hz power source



human designed systems, inc.

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