FEATURES: Multi Page Operation • 16 Loadable Function Keys (optional) • Auxiliary Parallel I/O • Extensive Formatting and Editing Capability.

The microprocessor based DM30 is designed for the sophisticated user who requires an extensive fully featured terminal. The terminal offers optional capabilities which allow up to four pages of memory and 16 loadable function keys. The function keys are dynamically spread across a 4K memory and may be used independently or linked based on application requirement. The DM30 offers a plug compatible parallel printer interface as standard. Full editing and formatting facilities are provided throughout the display memory including selectable entry parameters for alpha, numeric, total fill, must fill, constant and modified mode.

Communication facilities via the serial asynchronous RS232C, main and auxiliary ports are speed selectable via software or hard switches up to 19,200 baud. Standard communications facilities of the DM30 include conversational, line, page, block or message modes.
The DM3S is a DM30 with socket provision for OEM applications.
The DM 'S' Series offers as standard both synchronous and asynchronous I/O capability.
For those applications similar to the DM30 that require special protocols (firmware), the DM3S is your answer. You may develop your own firmware or have it developed by Beehive.

SPECIFICATIONS

DISPLAY FORMAT
24 lines x 80 characters
DISPLAY MEMORY
Two pages, 3840 characters 48 lines x 80 characters
STATUS LINE
25th line of display
DISPLAY SIZE
8.5” high x 8.5” wide
CRT SIZE
12” measured diagonally
CHARACTER SIZE
Approximately 0.2” high x 0.1” wide
CHARACTER TYPE (Alphanumeric)
128 displayable ASCII characters, each formed within an 8 x 8 dot matrix. Descenders on lower case characters.
CHARACTER TYPE (Line Drawing)
Eleven graphic symbols for drawing forms and contiguous lines
CHARACTER GENERATION
MOS ROM
REFRESH RATE
50 Hz — 60 Hz (Programmable)
CHARACTER DISPLAY
Light characters on a dark background or dark characters on a light background (switch selectable)
VISUAL ATTRIBUTES
Normal, Reverse, Blink, Underline, Half Intensity, and Security Fields
LOGICAL ATTRIBUTES
Protected, numeric only, modified data transmission, Must Fill, Total Fill, Constants
TABULATION
Fixed tab stops occur each eight character positions
CURSOR
Non-destructive blinking block
MEMORY LOCK
The display area above the line the cursor is currently on is frozen on the screen
LINE LOCK
The host CPU may selectively designate reserved display lines
MEMORY ADDRESS POINTER
An invisible cursor that is used to read and write to and from the display memory independent of visible screen functions
CURSOR CONTROL
Up, down, left, right, home, carriage return, line feed
CURSOR SENSE
Cursor position is transmitted to the host upon request

CURSOR ADDRESSING
Direct X-Y cursor positioning by line and column
MEMORY POINTER DATA SENSE
ASCII value of the character located at the memory address pointer
READ TERMINAL STATUS
A 30 byte status message reflecting switch setting, diagnostic results, communication protocol, etc.
SCROLL
When display memory is filled the bottom line data will scroll upward. I/O or Keyboard Forwarding or reverse scrolling and page selection
EDITING OPERATIONS
Insert/Delete on a character or line basis plus tab, back tab, backspace and character overwrite. The clear entry (CE) operation will erase the field the cursor is in and position it at the beginning of the same field while in a protected mode of operation
ERASE FUNCTIONS
Erase to end of page
Erase to end of field (protected)
Erase to end of line (unprotected)
Clear variable data
Clear all data
PRINTER INTERFACE
Plug compatible parallel printer interface
COMMUNICATIONS INTERFACE
Serial RS232C/Current Loop
TRANSMISSION RATE
19.2K XON XOFF protocol
Switch selectable 110 to 9,600 baud (EIA)
Switch selectable 110 to 9,600 baud (CL)
PARITY
Switch selectable, odd, even, mark, or space
COMMUNICATION MODE
Full duplex
Half duplex
Echoplex
Asynchronous only
OPERATIONAL MODES
Conversational: Character by character transmission
Line: Line at a time transmission
Page: Full or partial page transmission
Forms: Allows for operator or host CPU building of formatted display
Local: Off line display data entry
Line Monitor: Displays all ESC codes and control code sequences
TERMINATION CHARACTER
Switch selectable CR. EOT, ETX, CR LF
TIME OF DAY CLOCK
A real time clock that may be set by the host CPU or operator
CPU MESSAGE DEPOSIT
An 80 character message buffer holds host CPU data and prints "MSG WAIT" on status line for operator recovery
ERROR INDICATORS
Status line messages reflect operator error and system status
BELL
Audible alarm up on receipt of control G or as the cursor passes through the 72nd character location when data is being entered from the keyboard. The continuous alarm on/off feature is included
KEYBOARD
A 61 key ANSI compatible TTY/Teletypewriter compatible layout featuring auto repeat, two key rollover, alpha lock and lower case inhibit. Also includes a 14 key numeric pad with associated field termination control keys. The sixteen programmed function keys, cursor control keys, and system mode on control keys are included
AUXILIARY INTERFACE
A serial bidirectional interface that has a character buffer on both the send and receive lines. Transparent printing, communications control, as well as independent baud rates are standard
SELF DIAGNOSTICS
Either through host CPU control, operator initiated, or upon power up
INPUT VOLTAGE AND FREQUENCY
115 VAC ±10% 60 Hz
ENVIROMENTAL SPECIFICATIONS
Altitude: Sea level to 10,000 feet
Temperature: 0°C to 40°C
Humidity: 10 to 80% (Non-condensing)
TERMINAL SIZE
18” W x 13” H x 22.5” D
TERMINAL WEIGHT
43 lbs. (Approximate)
TERMINAL FINISH
Textured

OPTIONS
• 230 VAC: ±10% 50 Hz
• Composite Video
• Four pages of memory
• 16 Loadable function keys

SPECIFICATIONS SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE

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