MONITOR SYSTEMS
an AYDIN company
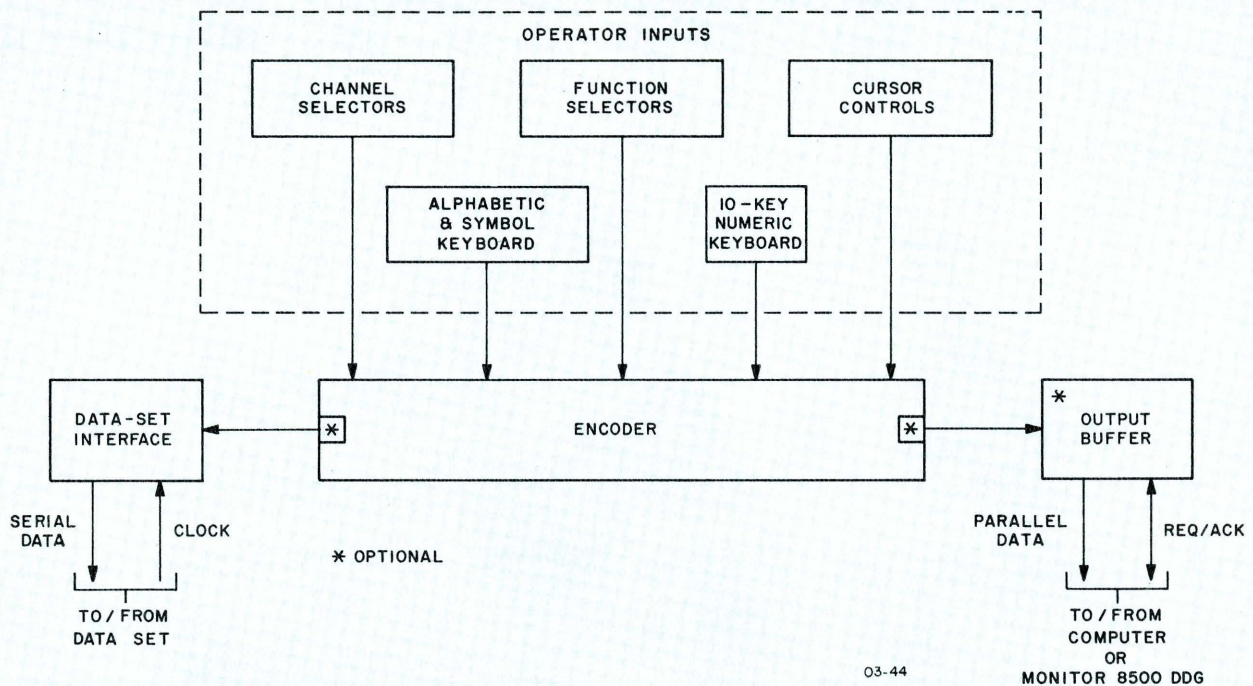
MONITOR 8540

DISPLAY EDITOR

for use with
Monitor 8500
Digital Display Generator
and other
Display Systems

The MONITOR 8540 Display Editor is a compact, portable unit for man-machine communication in conjunction with cathode-ray-tube displays. It converts operator inputs into electronic signals for connection to a general-purpose digital computer or to a display generator such as the MONITOR 8500 (see separate brochure).

DESIGN FEATURES

- STANDARD ALPHABETIC KEYBOARD similar to that of a conventional electric typewriter.
- SEPARATE NUMERIC KEYBOARD similar to that of a conventional 10-key adding machine.
- CHANNEL SELECTION KEYS for choice of display in multi-channel system.
- FUNCTION SELECTION KEYS labeled by replaceable transparent overlay, with edge-notched key.
- CURSOR CONTROLS for up-down, left-right slewing and positioning of a position marker on the display.

- SYSTEM INTERFACE for transfer of instructions as bit-parallel words with ready-acknowledge control to a computer or a MONITOR 8500 Digital Display Generator.

- DATA-SET INTERFACE in lieu of the direct-connected System Interface as an optional integral facility for converting outputs to serial form, as required for common-carrier communications links.

- OPTIONAL CURSOR POSITION INDICATOR LIGHTS depicting x & y cursor location.

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                          OPERATOR INPUTS
   ┌────────────┐      ┌────────────┐      ┌────────────┐
   │  CHANNEL   │      │  FUNCTION  │      │   CURSOR   │
   │  SELECTORS │      │  SELECTORS │      │  CONTROLS  │
   └────────────┘      └────────────┘      └────────────┘

            ┌──────────────┐   ┌──────────────┐
            │  ALPHABETIC  │   │   IO – KEY   │
            │  & SYMBOL    │   │   NUMERIC    │
            │  KEYBOARD    │   │   KEYBOARD   │
            └──────────────┘   └──────────────┘
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DATA-SET INTERFACE * ENCODER * OUTPUT BUFFER

SERIAL DATA   CLOCK   * OPTIONAL   PARALLEL DATA   REQ/ACK

TO / FROM DATA SET

TO / FROM COMPUTER OR MONITOR 8500 DDG

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SPECIFICATIONS

LOCAL EDIT OUTPUT *(Optional in lieu of Remote):*
16-bit parallel data transfer to nearby computer or MONITOR 8500 Digital Display Generator.
Request-Acknowledge control.
Levels 0 and +5 volts.
8 bit output bytes optional.
On special order, interfaces for any GP computer.

REMOTE EDIT OUTPUT *(Optional in lieu of Local):*
Serial data transfer of 16 bits per operator action at rate compatible with modem: 1200, 2400, 4800, or 40,800 baud.
Transmit-only standard. Half duplex, full duplex communication optional.
Levels compatible with EIA RS-232.

KEYBOARDS:
Typewriter keyboard comprising 26 alphabetic characters and 28 symbols, plus separate 10-key aggregate for numerals.
Character code up to eight bits. ASCII standard, others available.

FUNCTION SELECTION *(Optional, for computer only):*
Four fixed-function selectors, together with nine varible-function selectors coded with a plastic notched overlay permitting one of up to 64 different nine-bit codes to be transmitted when a new selection is made.

CHANNEL SELECTION:
Ten switches for identifying display channel(s) to which output is directed. For direct connection to MONITOR 8500, only one channel may be selected at a time.

CURSOR CONTROLS:
By use of four directional pushbuttons, the operator may control a cursor on the channel(s) selected, moving it one display element in the selected direction. Holding a switch for a period in excess of 1 sec causes the cursor to slew in the selected direction.

ERROR LOCKOUT:
Transfer of new operator-selected data is disabled until the previous data has been transmitted.

TECHNOLOGY:
High-reliability integrated circuits on field-proven logic cards. Sliding drawers permit front access for most maintenance operations. See separate brochure on MONILOGIC for description.

POWER INPUT:
Commercial mains; nominal 115 volts, 60 Hz, single phase, less than one ampere.

ENVIRONMENT:
Ambient temperature 50°F to 100°F. Relative humidity to 95%, without condensation. Other ranges on special order.

SIZE:
16" x 6" x 10", complete, including self-contained power supplies and all interface circuitry.

WEIGHT:
20 lbs., approximately.