

DIGITAL EQUIPMENT CORPORATION



CONTROL PRODUCTS/MODULES

OPTION BULLETIN

RTOI DEC-link[®] Data Entry Terminal



*Registered trademark of Digital Equipment Corporation

digital

FEATURES

DEC-link is a low-cost, self-contained data entry device which is remotely locatable. It features teletype and EIA serial line compatibility.

DEC-link offers 16 unique characters which a monitoring computer may use for either numeric data or control functions. It can display up to 12 digits of decimal data (plus decimal point) as well as status indicators.

Data is entered via an integral 16 character keyboard; numeric data is displayed on "Nixie"* tubes.

The status indicators are used to indicate non-numeric information such as "repeat transmission", "computer ready", etc. Four programmable status indicators are standard on DEC-link.

Interface to a computer is easily accomplished via any full duplex, 4 wire data communications teletype interface. Such standard interfaces are available for the PDP-8 family, PDP-10, PDP-11, PDP-15, and PDP-16 computers. Modem interface signals, corresponding to EIA RS-232C specifications, are also provided.

Versatility: DEC-link's usage may be defined entirely by software. Each character may be given significance according to the application. For instance, a key which represents "Part Number" in a stockroom application may represent "Employee Number" in a security system.

Portability: DEC-link's small size and weight (about the size of a typewriter) allow it to be moved from one location to another.

Reliability: DEC-link's all solid-state design, coupled with a keyboard rated at 20 million operations, guarantees long, trouble-free operation.

Low cabling cost: Connection to the computer may be made via standard 22 ga. 4 wire twisted pair cable or, with a user supplied modem, over voice-grade telephone lines.

Compatibility: DEC-link is hardware compatible with all of DEC's comprehensive line of data communications equipment, making available the full range of DEC computer power.

Maintenance: The elimination of electro-mechanical parts and paper and ribbon replacements makes routine maintenance unnecessary.



APPLICATIONS

DEC-link provides easy and economical access to numeric information in a computer. It lends itself to such applications as:

- Stockroom Inventory Control**
- Data Logging**
- Information Retrieval**
- Production Line Monitoring**
- Quality Control Monitoring**
- Work Flow Monitoring**
- Security Systems**
- Machine Efficiency Reporting**
- Management Information Systems**

DEC-link fills the gap in price, performance, and usage between full-scale, video displays and electro-mechanical, hard-copy devices.

SPECIFICATIONS

General

Line Voltage:
115 VAC, 230 VAC 47-62 Hz.
Power: 30W
Size: 15" W x 12" D x 6" H
Weight: 12 lbs.
Aux. Switches: on-off

Display Options

Lamps:
4 Status Indicators (programmed control)
Digits:
4, 8, or 12 Nixie tubes
Decimal Point:
Programmable over 12 digits.

Control Functions

Clear Display: Code (100)₈
Load Status Indicators:
Code (120)₈ to (137)₈ "P"
through "←"

Data Input

Input Levels:
20MA TTY Isolated Current Loop
EIA RS232C
Receive Rate:
110 or 300 Baud
Character Format:
8 level asynchronous serial ASCII
1 or 2 stop bits.

Data Output

Output Levels:
Isolated Transistor switch
capable of passing 20MA
EIA RS232 Levels:
Data Terminal Ready
Transmitted Data
Received Data
Protective Ground
Signal Ground
Transmission Rate:
110 or 300 Baud
Character Format:
8 level asynchronous serial ASCII
Character Rate:
10 Characters/Second (110 Baud)
30 Characters/Second (300 Baud)
Output Connectors:
4 lug Jones Strip (TTY)
Cinch DB 25P (EIA)

Character Set

Number of Characters: 16
Code:
ASCII 8 level
Character Codes:
ASCII ϕ through 9
A through F

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