

SPECIFICATIONS

MODEL 200A DATA CONTROL UNIT

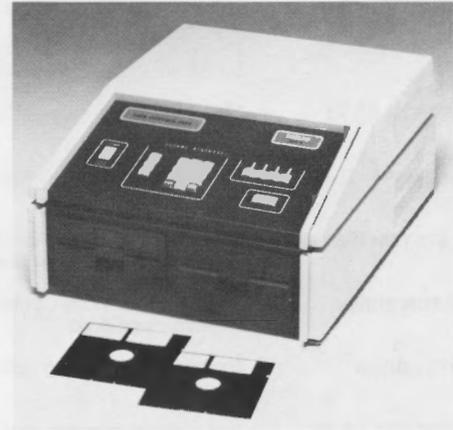
APPLICATIONS

The Data I/O Model 200A Data Control Unit (DCU) with Data File Operating System (DFOS) provides on-line data storage for PROM and logic device programming.

The DCU works with any compatible RS-232C programmer. Three serial I/O ports permit connection of up to three programmers, or two programmers and any other RS-232C compatible data communication instrument. When used with the Data I/O Production Programmer, the DCU can operate as a slave under remote control.

Alternately the DCU may be controlled from an optional front panel or from a CRT terminal.

The DCU uses 5¼" floppy diskette storage for programming data, and indexes individual data files under custom-definable part numbers. Combinations of up to 12 alphanumeric characters are valid.



MODES

NAME	DESCRIPTION
SEND DATA	Outputs data from diskette to the programmer or to another data communication instrument via the RS-232C port.
STORE DATA	Records data pattern received via RS-232C port on diskette.
DIRECTORY	Displays part numbers of the data patterns on diskette.
SELECT	Initiates auxiliary function using two-digit code. (See below.)

SELECT FUNCTIONS AND CRT CONTROL COMMANDS

The select functions can either be initiated from a CRT terminal or at the Data Control Unit's optional control panel. When the DCU is used with the Model 100A Production Programmer, all functions (as well as the modes listed above) may be controlled at the Production Programmer.

CODE	NAME	DESCRIPTION
01	Send to File	Stores data pattern received via RS-232C port on disk.
02	Copy File	Copies data pattern from disk 1 to disk 2.
03	Delete File	Erases a particular file from a disk.
04	Copy Disk	Copies disk in drive 1 onto disk in drive 2.
05	Format Disk	Erases a disk and stores basic formatting information for later reference by the Data Control Unit.
06	List Directory	Lists the part numbers of the data files stored on a DCU disk.
07	Available Space	Displays the number of kilobytes of space left on a disk.
08	File Device Family and Pinout Codes	Sets up the DCU to include device codes in data files for programming with the MOS Pak, UniPak or 120A/121A.
09	No Device Family and Pinout Codes	Sets up the DCU for creating files without device codes.

CODE	NAME	DESCRIPTION
10	Offset Option	Captures a portion of the input data or alters the addresses of outgoing data.
11	No Offset Option	Deselects the Offset Option.

ERROR CODES

DISPLAY	DESCRIPTION
ADDR FIELD ERROR	Address field error. Format violation during an input operation.
ADDR RANGE ERROR	Address range error. Same address was received twice during an input operation.
BAD DISKETTE	Bad diskette. Diskette is not formatted.
BAUD RATE ERROR	Baud rate error. DCU and peripheral not synchronized during I/O transmission.
CRC ERROR	Cyclic redundancy check error. Accuracy check of transmitted data failed.
COPY ERROR	Copy error. Diskette duplication was unsuccessful.
DATA FIELD ERROR	Data field error. Format rule was violated on input.
DEVICE TIMEOUT	Device timeout. No data was received via RS-232C port for 35 seconds.
DISK ERROR	Disk error. Disk drive hardware problem.
DISK FULL	Disk full. Not enough space is left on diskette to store file.
FORMAT ERROR	Format error. Disk drive has a timing problem.
INV ADDR FIELD	Invalid address field. Input format rule violated.
INV FORMAT CODE	Invalid format code.
LOST DATA	Lost data. Timing error.

DATA I/O

ERROR CODES

DISPLAY	DESCRIPTION
MAP ERROR	Map error. Diskette is not formatted.
NO CONT SECTORS	No continuous sectors. Data storage is scattered. Diskette needs to be copied.
NO DISK IN DRIVE	No disk in drive. Diskette is not completely installed.
NO SUCH PN	No such part number. File was not found on diskette.
NOT SYSTEM DISK	Not system disk. The Data File Operating System (DFOS) has not been loaded.
OVERRUN ERROR	Overrun error. Data Control Unit not ready to receive input data.
PARITY ERROR	Parity error. Incoming data has the wrong parity.
PN ALREADY USED	Part number already used. An attempt was made to create a file using a part number already on the disk.
RAM ERROR	RAM error. Faulty RAM.
RECORD COUNT	Record count error. I/O format rule was violated.
SECTOR NOT FOUND	Sector not found. Diskette is not reliable.
SEEK ERROR	Seek error. Diskette is not reliable.
SINGLE DRIVE SYS	Single drive system. An operation requiring two drives was attempted using a Data Control Unit with only one drive.

DISPLAY	DESCRIPTION
SUM-CHECK ERROR	Sum-Check Error. Calculated and recorded checks of data do not agree.
WRITE PROTECTED	Write protected. An attempt was made to store a file on a write-protected disk.

I/O FORMATS

ASCII-BNPF	ASCII-Hex (Percent)
ASCII-BHLF	ASCII-Hex (Apostrophe)
ASCII-BIØF	ASCII-Hex (Comma)
Binary	ASCII-Hex SMS
DEC Binary	RCA Cosmac
Spectrum	Fairchild Fairbug
ASCII-Octal (Space)	MOS Technology
ASCII-Octal (Percent)	Motorola Exorciser
ASCII-Octal (Apostrophe)	Intel Intellec 8/MDS
ASCII-Octal SMS	Signetics Absolute Object
ASCII-Hex (Space)	Tektronix Hexadecimal

ORDERING INFORMATION

901-0188-001	200A, Dual Disk Drive, 100/120V
901-0188-002	200A, Dual Disk Drives, w/Control Panel, 100/120V
901-0188-003	200A, Single Disk Drive, 100/120V
901-0188-004	200A, Single Disk Drive, w/Control Panel, 100/120V
951-0188-001	Disk Drive Update Kit
951-0188-002	Control Panel Update Kit
324-0188-002	Extra DFOS Diskette
950-0133-001	Blank Disks, Box of 10

All Data Control Unit Configurations are shipped with the operating system diskette (2 copies), power cord, serial interface cable, instruction manual and operator's guide.

All specifications subject to change without notice. For additional information, contact your Data I/O sales representative.

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