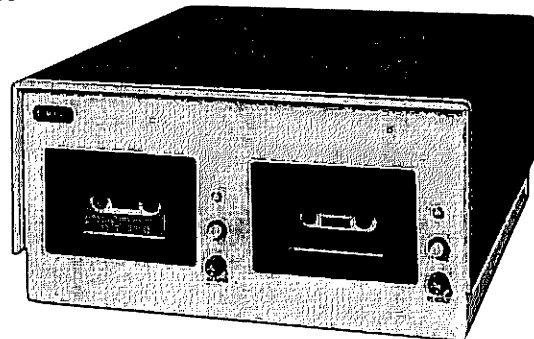# DATA SHEET

The Wang Model 2218 Dual Tape Cassette Drive is a System 2200 peripheral unit designed to add fast, convenient, reliable low-cost bulk storage capabilities to several Wang systems, using magnetic tape cassettes. Each drive in a Model 2218 unit is equivalent to one Model 2217 Single Tape Cassette Drive which is available either as a separate modular unit or integrally housed in the chassis of one of the CRT Executive Display units for the System 2200 or WCS consoles.

The Model 2218 Dual Tape Cassette Drive is always a separate modular unit, housing two cassette drives whose connector cords plug into one double-outlet peripheral controller board. The controller board plugs into any I/O slot in a 2200 Series Central Processing Unit (CPU).

Each drive in a Model 2218 unit has two manual controls — one for mounting/ dismounting cassettes and the other for high-speed rewinding of tape cassettes. The Model 2218 drives are operated independently under BASIC language control in the Immediate Mode or the Program Mode by using the unique device address assigned to each drive. Since both drives plug into one controller board, a Model 2218 unit offers distinct advantages over two Model 2217 single drive units. In addition to the smaller purchase price, space is freed in the CPU for an additional peripheral controller board.

Programs and data can be recorded on, and read from, tape cassettes using BASIC language statements designed for cassette operations. Information recorded on tape cassettes is for-matted automatically in 256-byte blocks called physical records, and each record is recorded twice to ensure the integrity of the information.

MODEL 2218
DUAL TAPE CASSETTE DRIVE

DATA SHEET

The SAVE command automatically formats a "program file" with a header record, program records (as many as required to store the program text), and a trailer record. A program can be recorded with or without an identifying name (up to eight bytes long). If the parameter P is specified, a program is recorded as a "protected program file" – such programs can be read into memory and executed, but they cannot be listed or duplicated.

The DATASAVE statement automatically formats a logical record consisting of as many physical records as required to store all the values corresponding to a specified argument list. If the parameter OPEN and a name are specified, a data file header record is formatted. Similarly, if the parameter END is specified, a data file trailer record is formatted.

The LOAD statement reads program text and the DATALOAD statement reads data from tape cassettes into memory. SKIP and BACKSPACE statements instruct a drive to pass over a specified number of program and data files, or to pass over a specified number of logical records. Other cassette statements (DATASAVE BT and DATALOAD BT) are available in the standard System 2200 T, or the System 2200S with Option 22, 23, or 24. DATASAVE BT and DATALOAD BT statements provide capabilities useful for program conversion and packing operations, or tape duplication operations.

Magnetic tape cassettes are available in 75-foot (22.8-meter) and 150-foot (45.7-meter) lengths. Approximately 300 automatically-formatted, dually-recorded records can be stored on a 150-foot cassette; that is, approximately 76,800 bytes. Any cassette recorded on a Model 2217 unit can be used, without modification, on a Model 2218 unit (and vice versa).

SPECIFICATIONS

Physical Size

Height	7-1/8 in. (18.1 cm)
Width	14 in. (35.6 cm)
Depth	16-1/2 in. (41.9 cm)

Site Size (Door Open)
7-1/8" x 14" x 17-1/2" (18.1 cm x 35.6 cm x 44.5 cm)

Weight
38 lb (17.2 kg)

Power Cable
8 ft (2.4 m)

Cable to CPU
8 ft (2.4 m)

Power Requirements
115 or 230 VAC ± 10%
50 or 60 Hz ± 1 Hz
150 Watts

Fuses
(2) 1.5A @ 115V
(2) 1A @ 230V

Operating Environment
50°F to 90°F (10°C to 32°C)
20% to 80% relative humidity

Stop/Start Time
.09/.05 sec

Recording and Search Speed
7.5 in./sec (19 cm/sec)

Rewind Speed
7.5 ft/sec (2.3 m/sec)

Transfer Rate
326 bytes/sec (including dual-recording and inter-record gaps)

Cassette Capacity
Approximately 300 automatically-formatted, dually-recorded 256-byte physical records per 150-ft tape cassette (that is, approximately 76,800 bytes).

Cassette Part Numbers
75-ft (22.8 m) Cassette (Part Number 174-1250)
150-ft (45.7 m) Cassette (Part Number 174-1251)

Accessories
4 Blank Cassettes (Part Number 174-1251)
18 Cleaning Pads (Part Number 660-0130)

Standard Warranty Applies

ORDERING SPECIFICATIONS

A dual tape cassette drive unit capable of recording/reading both program text and data for the Wang System 2200 Central Processing Unit, using 150-ft magnetic tape cassettes on which approximately 76.8K bytes of information can be stored in 300 automatically-formatted, dually-recorded 256-byte physical records. Each drive in the unit must be equipped with two manual controls, one for mounting/dismounting tape cassettes and the other for rewinding tape cassettes. Each drive must be able to operate independently under BASIC language control and to implement recording/reading operations and skip/backspace operations, at an effective rate of 326 bytes/sec (including interrecord gaps and dually-recorded records).

Wang Laboratories reserves the right to change specifications without prior notice.