

## **Microdata**

# **Peripheral**

## **Series 6000 Magnetic Tape Units**

Write or read with high precision and reliability at a practical price. That's what Microdata, the leader in microprogrammed minicomputers, offers in its new line of Magnetic Tape Units. *Precision* means error-free tape interchangeability with the most sophisticated IBM systems. *Reliability* means simplified design for trouble-free operation year after year.

#### COMPATIBILITY

- · Industry-compatible interface
- · Four-unit daisy chaining
- · No programming restrictions
- 7- or 9-track, one-half inch tape
- · All standard densities and tape speeds
- 10.5 or 8.5 inch reel size
- Ac power from 47 Hz to 400 Hz



#### DATA RELIABILITY AND PRECISION

- · Automatic multi-level read thresholds
- Better data recovery from marginal tapes
- Head location and head guide spacing is identical to IBM systems
- Channel-by-channel electronic deskewing method is the same as used in IBM systems

#### **FEATURES**

- · File protect, prevents accidental erase
- · Automatic reel-seating hold-down hubs
- · Automatic retracting buffer arms
- · Controlled dynamic braking
- High-speed (200 ips) fast foward and rewind. File marks can be read at 200 inches per second.
- Loss of line (power fail) detector

#### SOUND MECHANICAL DESIGN

- Tape transport is one-piece precision casting for rigidity, lightness and precision tape tracking
- Tape path alignment is in a single plane
- Simplified mechanisms to minimize moving parts no belts or pulleys
- Blade-type tape cleaner located just ahead of read/write head
- · Single capstan drive
- · Ceramic edge guides
- · Fewer modules to minimize electrical connectors
- Vertical, hinged transport chassis for ease of maintenance
- Quiet running
- Gentle tape unload

#### INNOVATIVE ELECTRONIC DESIGN

- Speed (including rewind) is encoder-controlled for excellent short- and long-term stability
- Light-emitting diodes (LED) used in place of incandescent lamps for longer life. Also used in the EOT/BOT sensor.
- · Low-voltage front panel power switch
- Photo diode isolation between data electronics and servo electronics
- · All electronics are contained on three circuit boards

#### **SPECIFICATIONS**

Tape Speeds
Data Transfer Rate 72K Characters/second @ 1600 BPI
Number of Tracks and Densities:
7-track IBM 200, 556, or 800 BPI, NRZ1
9-track ASCII 800 BPI, NRZ1, or 1600 BPI, P.E.
Rewind and Fast Forward Speed 200 IPS
Skew 150 microinches maximum
Write-To-Read Crosstalk 5% maximum of normal
read signal
roud signal
Read-To-Read Crosstalk 5% maximum of normal
read signal

Read Thresholds:
Read After Write 40% of nominal full output Read Only
Start/Stop Times (seconds) 0.370 divided by tape speed in IPS
Start/Stop Distance 0.190 inch ±0.02 inch
Tape Speed Stability:
Instantaneous±1%
Long-Term ±0.5%
Tape Size:
WidthOne-half inch
Thickness 1.5 mils
1110111033
Reel Diameter
Tape Tension 8 ounces ±0.5 ounce
Environmental:
Temperature Range
Relative Humidity 5% to 95%, without condensation
Power Requirements:
Voltage 115/230 Vac
Frequency 47 Hz to 400 Hz
A STATE OF THE PARTY.
Logic Levels 0 to +5 volts, DLT/TTL compatible
Weight
Mounting Mounts in standard 19-inch rack



### ™ Microdata

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