Appendix A
Specifications

Physical
Size (each chassis)
L: 17" H: 5.75" D: 10.5"
L: 43cm H: 15cm D: 27cm

Weight
240M: 19 lbs., 8.5 Kgs.
240S: 17 lbs., 7.5 Kgs.

Environmental
Storage
Temperature: -40°F to +185°F,
-40°C to 85°C

Humidity: 0 to 95%,
non-condensing

Operating
Temperature: -22°F to +162°F,
-30°C to 72°C

Humidity: 0 to 95%,
non-condensing

Mounting
Standard: desktop mounting or
19" rack mounting

Optional: 23" rack mounting
brackets available

Construction
Chassis
Clear anodized aluminum

Front panel thumb screws allow
access to inside

Electrical
Plug-in printed circuit boards,
each identified by name

Power
Isolation
Minimum 2,000 VAC isolation to
B & N power terminals

Voltage
Nominal: 12 VDC

Range: 10 to 36 VDC

Consumption
240M: 7 Watts with modem

240S: 3 Watts

Capacities
Slave Units
0 to 15

Inputs
240 to 3,840 in multiples of 240

Event Storage (240M)
Standard: 419,428 Event Records

Optional: maximum of 1,677,712
in multiples of 104,857

Memory Full: newest data
over-writes oldest data, 91st day
over-writes oldest day

RS-232 Ports
One per chassis, suitable for use
with a PC, VDT or printer

Baud Rate: 1200, 2400, 4800,
9600, 19200 and 38400

Bit format: N-8-1

Emulation: TTY, ANSI and TVI-910

Liquid Crystal Display (240M)
2 lines by 20 characters

Alpha-numeric, upper- and
lower-case

Viewing area: 2.9" by .5"

Front Panel Keypad (240M)
16 keys, push-button switches

0-9, left and right arrow, Browse,
Setup, Esc and Enter

Input Circuits
Input Impedance
5,000 ohms minimum

Voltage Range
5 to 30 VDC

Detection Timing
User defined, from .1 sec. to
1,500 sec. in multiples of .1 sec.

Compatible with non-varying
flashing circuits

Input Isolation
Input to Ground
Minimum 3,800 VDC

Input Isolation (continued)
Any Input to Adjacent Input
Minimum 1,500 VDC

Modem (240M option)
Meets FCC part 68 standards

Connectors
Inputs
Paired "+" and "-" into screw-
down, quick-disconnect
terminals

Wire Size: 12-22 AWG

RS-232 Ports
DB-9 male connectors mounted
on rear panel

Each configured as DCE

Network (Arcnet)
240M: DB-9 female

240S: DB-9 female, 1 in, 1 out

Power
Battery B and N to No. 6 screw
terminals

Telephone Line (240M)
Female RJ-11 jack and No. 6
screw terminals

Indicators
LCD Panel (240M)
Backlit for enhanced visibility

Setup and data retrieval
commands selected from
multiple menus

LEDs
240M: Green; Power, Terminal
and Modem

240S: Green; Power, Terminal
and Network

Memory
Type
Non-volatile, Event Records and
Setup Database are saved in
battery backed-up memory

Storage Longevity
1 year min. with power off

Specifications
(continued)

Internal Clock

Accuracy
+/- 1 minute per month (20 ppm)

Resolution
Event Records are time stamped to nearest .1 second

Operation
Full calendar, auto-adjusted for leap year

Non-volatile with power off

Year 2000 compliant

Password Protection

Administrative Level
Access to all commands, 10 characters

Restricted Level
Access to Event Record viewing only, 10 characters

Front Panel
Numerical Passcode protects against setup alterations, 8 digits

Modem (240M option)

Type
Internal, plug-in PCB

V.32bis, 14400 Baud, data compression and error correction

Usage
Remote access via auto-answer operation

Compliance
Designed to meet FCC part 68

MICRO-AIDE reserves the right to make changes, at its sole discretion, to the specifications contained herein.

Peripheral Cables
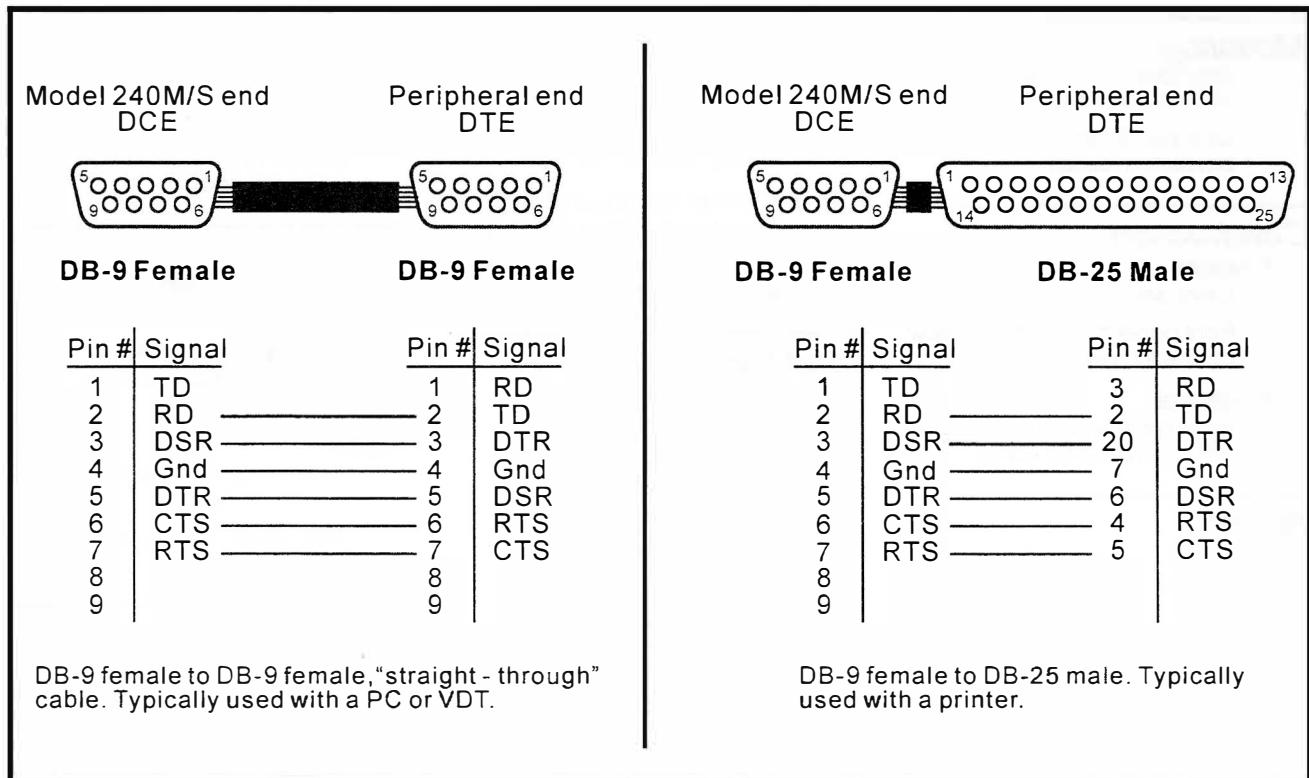Available from MICRO-AIDE or retail electronic and computer supply stores.

Model 240M/S end
DCE

Peripheral end
DTE

DB-9 Female

DB-9 Female

Pin #	Signal		Pin #	Signal
1	TD		1	RD
2	RD	——	2	TD
3	DSR	——	3	DTR
4	Gnd	——	4	Gnd
5	DTR	——	5	DSR
6	CTS	——	6	RTS
7	RTS	——	7	CTS
8			8	
9			9	

DB-9 female to DB-9 female, "straight - through" cable. Typically used with a PC or VDT.

Model 240M/S end
DCE

Peripheral end
DTE

DB-9 Female

DB-25 Male

Pin #	Signal		Pin #	Signal
1	TD		3	RD
2	RD	——	2	TD
3	DSR	——	20	DTR
4	Gnd	——	7	Gnd
5	DTR	——	6	DSR
6	CTS	——	4	RTS
7	RTS	——	5	CTS
8				
9				

DB-9 female to DB-25 male. Typically used with a printer.

Figure 14
Model 240M/S peripheral cables