

TECHNICAL DATA

Specifications

Physical

Size

Length: 8.3"

Width: 10.6"

Height: 5.6"

Weight

7lb.

Environmental

Storage

Temperature: -50°C to 85°C

Humidity: 0 to 95%, non-condensing

Operating

Temperature: -40°C to 72°C

Humidity: 0 to 95%, non-condensing

Mounting

Standard: shelf mounting

Optional: 19", 23" rack or wall mounting brackets available

Construction

Chassis

Fully enclosed, anodized aluminum, thumbscrews allow access inside

Externally accessible keypad, LEDs and connectors

Electrical

All components mounted on conformal coated, plug-in PCBs

Power

Voltage

Range: 10 to 36Vdc

Consumption

Typical: 3W

Maximum: 5W (with Modem PCB)

Isolation

Power

Minimum: 3800Vdc from B and N terminals to chassis and inputs

Inputs to Ground

Minimum: 3800Vdc

Input to Adjacent Input

Minimum: 1500Vdc

Internal Modem (optional)

Designed to meet FCC part 68 standards

Capacities

Inputs

Type: all digital, opto-isolated

Model 24D: 24

Model 48D: 48

Event Storage

Standard: 27,844 records

CPU Options: 60,612, 85,188, 126,148, 240,836, 363,716 and 478,404 records

Memory Full: 31st day overwrites first day, newest data overwrites oldest data

RS-232 Ports

Quantity: 2, for PC or printer

Emulation: TTY, TVI-910, ANSI

Port 1 Baud Rates: 300, 1200, 4800, 9600, 19,200, 38,400

Port 2 Baud Rates: 300, 1200, 9600, 19,200

Bit Format: N-8-1

Liquid Crystal Display

Characters: 40 total on 2 lines

Character Set: A-Z upper- and lower-case, 0-9, various symbols

Viewing Area: 2.9" by .5"

Front Panel Keypad

Quantity: 16 keys, pushbutton

Keys: 0-9, Browse, Setup, Esc, Enter, left, right

Inputs

Input Impedance

Minimum: 5KOhms, opto-isolated

Voltage Range

High: 5 to 36Vdc

Low: less than 2Vdc

Event Validation Times

Range: .1 to 1500 seconds in multiples of .1 seconds

Flashing: compatible with fixed rate flashing circuits

Memory

Type

Non-volatile, Event Records and Setup Database are stored in battery backed-up RAM

Storage Longevity

Minimum: 1 year with power off

Connectors

All on rear panel

Inputs

Detachable, screw-down with 12 terminals, 12 to 22AWG

RS-232 Ports

DE-9 male, configured as DCE

Power

B and N to No. 6 screw terminals

Telephone Line

RJ-11 jack and No. 6 screw terminals

Controls

LCD Contrast Adjust

Potentiometer: 20-turn, located on Power Supply PCB

Power On/Off Switch

Toggle: SPST, located on Power Supply PCB

Indicators

LCD Panel

Includes LED back lighting for enhanced visibility

Displays numerous command menus for configuring the recorder and retrieving data

LEDs (3)

Power: green

Terminal: green, flashes with send/rcv data

Modem: green, flashes with send/rcv data and ring-in

Internal Clock

Accuracy

Typical: ±1 minute per month (20ppm)

Resolution

Event Records are time stamped to nearest .1 seconds

Internal Clock (continued)

Operation

Full calendar, auto-adjusted for leap year

Non-volatile with power off

Y2K compliant

Password Protection

Administrative Level

Access to all functions, limit 10 characters

Restricted Level

Access to Event Record and Setup Database viewing only, limit 10 characters

Passcode

Protects against alterations to Setup Database via front panel, limit 8 digits

Internal Modem (optional)

Type

V.32bis, 14,400 Baud, data compression and error correction

Usage

Remote access via auto-answer operation

Compliance

Designed to meet FCC part 68 standards

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

Terminal Port Cable

The following cable is included with every Model 24D/48D.

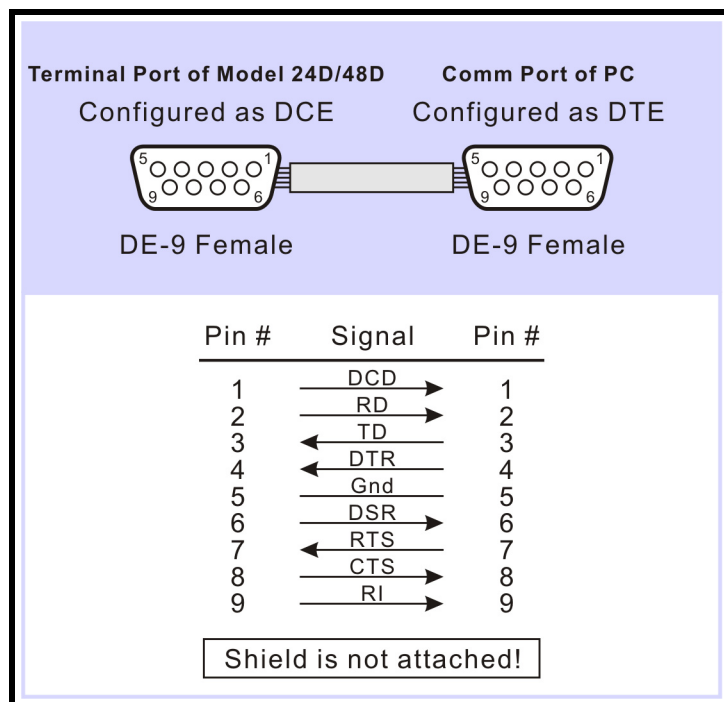


Figure 9 - terminal Port Cable - Wiring Diagram