

PRODUCT MANUAL

ELECTRONIC DISPLAYS INC.

**135 S. CHURCH STREET
ADDISON, ILL. 60101**



ED050-I-2011-N1-BCD-SR1

DESCRIPTION:

- Indoor, scrolling, 2.0 in. high message sign.
- Red A/N text with outdoor LEDs; 20 characters
- Serial interface : RS232 ; Standard ASCII text
- Windows based software to send messages.
- Control Box supplied with switches for triggering messages (BCD input)
- **POWER REQUIREMENTS: 120VAC.**

OPERATION:

This display is 20 characters long. Canned message are activated by contact closure. These display will also receive serial input via a PC / PLC is RS232 @ 1200BPS ; no parity ; 8 data bits ; 1 stop bit. Standard ASCII text is used for communication. Windows based software provided to download the messages. Serial communication wires and switch contacts will be wired to a terminal block inside the right endplate (RED: RS232; WHITE: GND). A customer power supply is included in the terminal block. Labels are VEXT and GND. There are a total of 15 message messages that will be controlled by the switches. See Appendix E for details.

If there are any questions or comments regarding this order , please call our Toll-free number : 1 - 800 - 367 - 6056

Unpacking Instructions:

A copy of these instructions is packed with each unit. Open carefully to avoid scratching the unit's paint and plastic lens or cutting the line cord.

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Mechanical Mounting Instructions:

This unit is equipped with two rivnuts attached to the top of the display (see CAD layout). The display is designed to be mounted to a wall or hung from a ceiling.

Power Requirements:

This unit is equipped with a standard, eighteen-gauge, three-wire line cord that is designed to be plugged into a standard, 120 VAC, 60 Hertz, grounded outlet. The maximum current draw for this unit (at 120 VAC) is __1.5_ Amperes.

Signal Requirements:

If your unit has serial input (either RS-232, RS-422, RS-485, etc.), the standard communication format for this unit is 1200 bits per second (baud rate) with one start bit, eight data bits, no parity, and one stop bit per character. The expected sequence of characters is specified in a later section of this manual entitled 'Protocol'.

Product Components:

See appendix A.

Wiring Diagram:

See appendix B.

Label Definitions:

The following page shows some commonly used labels and their definitions. Not all of these labels will be found in your unit.

LABEL	DEFINITION
RX+	Positive side of balanced data line for RS-422 or RS-485 serial input signals
RX-	Negative side of balanced data line for RS-422 or RS-485 serial input signals
IN1	Optically coupled input, active high, requires 12mA of current to activate.
VEXT	"VEXT" - Positive voltage output terminal of the customer power supply.
GND	"OPTO GRD" - Negative voltage output terminal of the customer power supply.

Power-up Response:

The display will scroll a power up configuration message until data is received by the display.

Addressing:

All signs are set to addresses 001 TO 005 at the factory.

Service:

There are no parts in your unit classified as 'user serviceable' parts. The plastic or glass cover can be cleaned using a soft cloth and a gentle glass cleaning solution.

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Contact Closure Message Activation

APPENDIX E

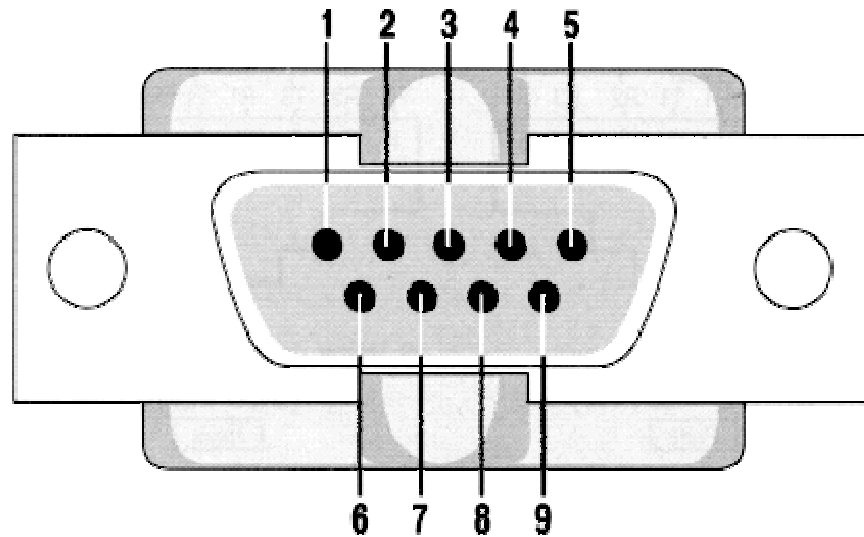
Using the Message Pro Software you will download messages 1 through 15 (See Message Pro Manual for downloading messages).

SW1 ON	SW2 OFF	SW3 OFF	SW4 OFF	This will activate message #1
SW1 OFF	SW2 ON	SW3 OFF	SW4 OFF	This will activate message #2
SW1 ON	SW2 ON	SW3 OFF	SW4 OFF	This will activate message #3
SW1 OFF	SW2 OFF	SW3 ON	SW4 OFF	This will activate message #4
SW1 ON	SW2 OFF	SW3 ON	SW4 OFF	This will activate message #5
SW1 OFF	SW2 ON	SW3 ON	SW4 OFF	This will activate message #6
SW1 ON	SW2 ON	SW3 ON	SW4 OFF	This will activate message #7
SW1 OFF	SW2 OFF	SW3 OFF	SW4 ON	This will activate message #8
SW1 ON	SW2 OFF	SW3 OFF	SW4 ON	This will activate message #9
SW1 OFF	SW2 ON	SW3 OFF	SW4 ON	This will activate message #10
SW1 ON	SW2 ON	SW3 OFF	SW4 ON	This will activate message #11
SW1 OFF	SW2 OFF	SW3 ON	SW4 ON	This will activate message #12
SW1 ON	SW2 OFF	SW3 ON	SW4 ON	This will activate message #13
SW1 OFF	SW2 ON	SW3 ON	SW4 ON	This will activate message #14
SW1 ON	SW2 ON	SW3 ON	SW4 ON	This will activate message #15

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APPENDIX G

PC Com Port - RS-232 pin out DB-9 pin

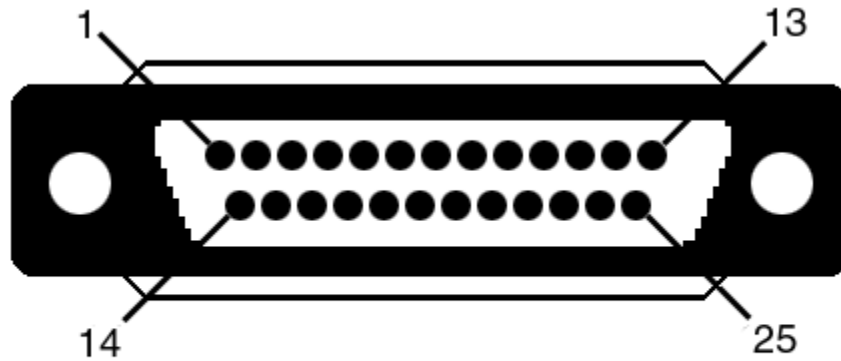


Pin	Signal	Pin	Signal
1	Data Carrier Detect	6	Data Set Ready
2	Received Data	7	Request to Send
3	Transmitted Data	8	Clear to Send
4	Data Terminal Ready	9	Ring Indicator
5	Signal Ground		

Pin 3 from your PC to Pin 3 on our DB-25 or DATA on our terminal block.
Pin 5 from your PC to Pin 7 on our DB-25 or GND on our terminal block.

PC Com Port - RS-232 pin out DB-25 pin

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**RS232 Cable - DB25 Male
(on Cable)**

RS232 - 25 Pin		
1	GND	Chassis / Frame Ground
2	TD	Transmitted Data
3	RD	Receive Data
4	RTS	Request to Send
5	CTS	Clear to Send
6	DSR	Data Set Ready
7	GND	Signal Ground
8	DCD	Data Carrier Detect
9	TD+	Transmit +
11	TD-	Transmit -
18	RD+	Receive +
20	DTR	Data Terminal Ready
22	RI	Ring Indicator
25	RD-	Receive -

Pin 2 from your PC to Pin 3 on our DB-25 or DATA on our terminal block.

Pin 7 from your PC to Pin 7 on our DB-25 or GND on our terminal block.

Warranty:

The standard warranty for all products is one year on all parts and labor at our facilities. All products are designed and manufactured by Electronic Displays Inc. If you need assistance, please call or FAX us and we will be happy to provide technical assistance. If you feel that your unit needs repair, please call us first and then ship the unit to:

Electronic Displays Inc.

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135 South Church Street
Unit A
Addison, Ill. 60101
Attn: Repair department

Our telephone number is:

(630) 628-0658

Our FAX number is:

(630) 628-0936