

PRODUCT MANUAL

ELECTRONIC DISPLAYS INC.

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



ED050–E-2011–N1-SR1-BCD

DESCRIPTION:

- Indoor, scrolling, 2.0 in. high message sign.
- Red A/N text with outdoor LEDs; 16 characters
- Serial interface : RS232 ; Standard ASCII text
- Windows based software to send messages.
- POWER REQUIREMENTS: 120 VAC @ 60Hz

OPERATION:

This display is 16 characters long. Canned message are activated by externally. 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 messages that can be loaded in the display. The messages can toggle in ON/OFF status by applying or removing 12VDC in respective inputs 2 or. The “OFF” status shows the message 1. The Inputs IN1, IN2, IN3 and IN4 needs to be combined in BCD mode to display the messages.

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

Unpacking Instructions:

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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.

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
DATA	Positive side of unbalanced data line for RS-232
GND	Ground, Negative side of unbalanced data line for RS-232 serial input signals
IN1, IN2, IN3, IN4	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 at the factory.

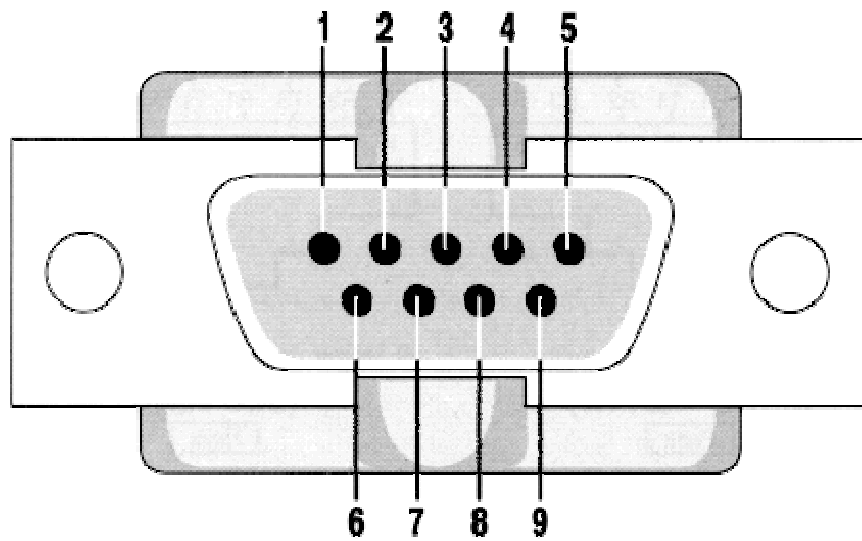
Service:

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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APPENDIX G

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

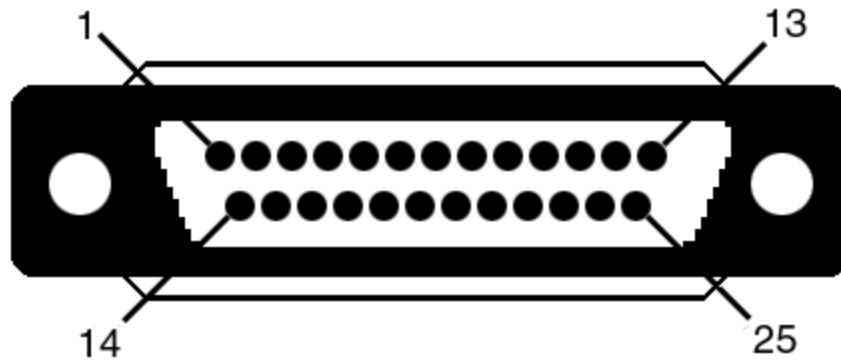


Pin	Signal	Pin	Signal
1	Data Carrier Detect	6	Data Set Ready
2	Received Data	7	Request to Send
3	Transmitted Data	8	Clear to Send
4	Data Terminal Ready	9	Ring Indicator
5	Signal Ground		

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