

PRODUCT MANUAL

**Electronic Displays Inc.
135 South Church Street Unit A
Addison , ILL. 60101**

PRODUCT PART NUMBER : ED100-3C-1505-2L-N1-ETH

DESCRIPTION :

- Indoor static 4.0 in. high message sign
- Two lines of, double face 3 color A/N text ; 15 characters;
- Serial interface : Ethernet adapter (ATC-1000) Serial port.
NEMA 1 enclosure ; bronze filter.
- **POWER REQUIREMENTS:** 120 VAC / 60 HZ ; 6 ft. line cord provided

OPERATION :

This indoor static marquee is 15 characters long. Serial input via a PC / PLC is RS422 through Ethernet adapter. Data will be wired to Ethernet terminal (Tx+/Tx-) in one side of the data cable and to the terminal block (Rx+/Rx-)inside the right endplate.

**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 in the top of the unit for mechanical mounting purposes. The bolts that are screwed into these rivnuts are standard 5/16 by 1 1/4" bolts. To avoid damaging the rivnuts, do not tighten these bolts more than 10 ft/lbs.

Power Requirements:

This unit is equipped with a standard, eighteen-gauge, three-wire line cord that is designed to be plugged into a standard, 120VAC, 60 Hertz, grounded outlet.

Signal Requirements:

If your unit has serial input (RS-422, RS-485, etc.), through Ethernet adapter 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'. Also, use the 3CSTATIC software (in CD-ROM) to send messages to the sign.

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.

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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
TX+	Positive side of balanced data line for RS-422 or RS-485 serial output signals
TX-	Negative side of balanced data line for RS-422 or RS-485 serial output signals
AC	Typically 10 to 12 VAC from EDI supplied transformer
+V	DC voltage supplied to displays
GND	Ground for DC voltage above

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Power-up Response:

When power is first applied to this unit, the display will show the address and the baud rate as specified on the DIP switches as shown below until a message has been received: "a=01(top line) b=1200 " where "a" is the address ; "b" is the baud rate.

Addressing:

This sign was set to addresses 01 for top line and 02 for bottom line, at the factory.

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Protocol:

ELECTRONIC DISPLAYS INC.

135 S. CHURCH STREET
ADDISON, ILL. 60101

www.electronicdisplays.com



PROTOCOL FOR 3 DIGIT ADDRESSABLE 3 COLOR STATIC MARQUEES

APPENDIX E

Display starts up with “**AnnnBnnn**”. This represents the address and baud, respectively. Baud rate is coded as in the table below.

Two types of messages can be sent:

(Control characters are represented by a ^ preceding them, e.g. ^C is a control-C)

1. To display a message: **^BaaCOLmmm...mmm^C** where **aa** is the address of the sign (00 to access all) and **mmm...mmm** contains the actual message to display (up to 15 characters, will be right-justified).
In addition, special control characters within the actual message will allow you to change the color. The COL = ^E, or ^F, or nothing(for RED) as below :
 - a. **^W** Sets the color to red (Default).
 - b. **^E** Sets the color to green.
 - c. **^F** Sets the color to yellow.
2. To change the address and baud rate and length: **^Baa^DxxyLen^C** where **aa** is the current address of the sign, **xx** is the new address, **y** is the new baud rate. and "Len" is the length of the sign (15 characters). Baud rates are coded as follows:

0	=	300 baud
1	=	600 baud
2	=	1200 baud
4	=	2400 baud
5	=	4800 baud
6	=	9600 baud

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Service:

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

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.
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