

PRODUCT MANUAL

ELECTRONIC DISPLAYS INC.

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ADDISON, ILL. 60101

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PRODUCT PART NUMBER :

ED202-117-4D-N1-KYN12.25" High Digits
ED402-117-4D-N1-KYN1 4.0" High Digits

DESCRIPTION :

- Multiple Digit serial interface display with RS-422/RS-485 input.
- EDI supplied Keypad to transmit data to display.
- Terminal block on endplate of keypad pre-wired for communication to the display.
- 30ft of cable supplied.
- NEMA 1 aluminum enclosure.

OPERATION:

This model is designed to receive serial data in RS422/485 format from keypad and display it. The display is factory set to 1200-Baud; no parity; 1stop bit and 8 data bits with address 01. The keypad transmits to the display at 1200-Baud; no parity; 1stop bit and 8 data bits. The keypad protocol is listed in Appendix E of this manual.

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

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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.

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, 120 VAC, 60 Hertz, grounded outlet. The maximum current draw at 120 VAC for ED400-117-4D-N1 is 700Ma / Digit and for ED225-117-4D-N1 is 500Ma / Digit.

Signal Requirements:

Your unit has serial input interface RS-422/RS-485, 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'.

Label Definitions:

The following page shows some commonly used labels and their definitions.

<u>LABEL</u>	<u>DEFINITION</u>
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

Power-up Response:

Upon power up, the display will cycle through some diagnostics shown below: A'XX', B'Y', U0'Z', and -01, where

XX = 2 digit display address.

Y = 3 digit baud code

1	= 300
2	= 600
3	= 1200(factory set to 3)
4	= 2400
5	= 4800
6	= 9600

Z = length of digits. Factory set to 6.

Addressing:

Factory set to address 01.

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Protocol:

See Appendix E.

APPENDIX E – KEYPAD PROTOCOL

The sequence of keys to enter values on the display is as follows:

1. Press the key marked 'A'.
2. Press the keys for the 2 digit address. (01)
3. Press the 1 to 4 numeric keys on the keypad for the number to be displayed on the display.
4. Press the key labeled 'D' (lower right hand corner)

Example:

To display '1234', the key sequence is as follows:

'A' '01' '1234' 'D'

To display '67', the key sequence is as follows:

'A' '01' '67' 'D'

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.

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

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