

PRODUCT MANUAL

ELECTRONIC DISPLAYS INC.

135 S. CHURCH STREET

ADDISON, ILL. 60101

www.electronicdisplays.com

ED206-110-4D-NXX.....2.25 inch digits

ED406-110-4D-NXX.....4.0 inch digits

DESCRIPTION:

- Indoor numeric 2.25 or 4.0 inch high, red LED display ; 4 digits / display.
- Up/Down counter in by 1; 3 contact closure operation count; preset to read thumb wheel switches; up/down count select) Preset switch and up/down select are located on the right endplate.
- Power: 120 VAC@ 60Hz. / 6 ft. Line-cord provided.
- NEMA rated enclosure.

OPERATION:

On power up, or when the pre-set input (labeled "IN2") is activated, the displayed time will show the value as read from the thumb-wheels. If the signal at the count input (labeled "IN1") is activated, the display will up or down count depending on the position of the up/down select switch ("IN3"). If the on/off pushbutton is on, the unit will down count. A terminal strip is provided for customer wiring of the contact closures.

If there are any questions or comments regarding this order, please contact us at <http://edisupport.helpserve.com>

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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 ED400-110-4D-N1 is 1 ampere and for ED225-110-4D-N1 is 3/4 ampere.

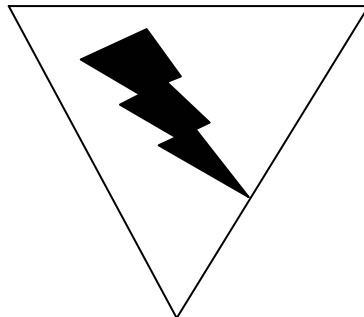
Label Definitions:

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

LABEL	DEFINITION
IN1, IN2, IN3	Optically coupled input, active high, requires 12 milli-amperes of current to activate.
IN1	Count input.
IN2	For preset momentary switch to read and display thumb wheel values.
IN3	ON/OFF switch for toggle between counting UP or Down. ON position will up-time the display.
Vext	12VDC from the display unit.
GND	"COMMON" – Connect negative terminal of the customer power supply here.

WARNING – SHOCK HAZARD

Always completely disconnect power from the display before opening the unit. Do not reapply power to the display until the unit has been securely closed.



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Customer Power Supply:

If this unit is equipped with optically coupled inputs, these inputs prevent any electrical or electronic signal from passing directly from the outside world into the logic circuits on the printed circuit boards that we have supplied.

For your convenience, we have also supplied this board with an 'isolated customer power supply' that can be used to drive the customer side of these optically coupled inputs. This isolated supply does not have a direct current connection to the power supply that is used to power the display and logic chips. It will provide 12 VDC to 14 VDC at up to 500 milli-amperes of current. This voltage is unregulated.

'Dry' Contact Configuration:

To use 'dry' contacts, the user need only supply a contact closure between the desired optically coupled input and the positive terminal of the 'isolated customer power supply'. The negative terminal of the isolated supply is already connected to the negative side of each optically coupled input. See Figure A.

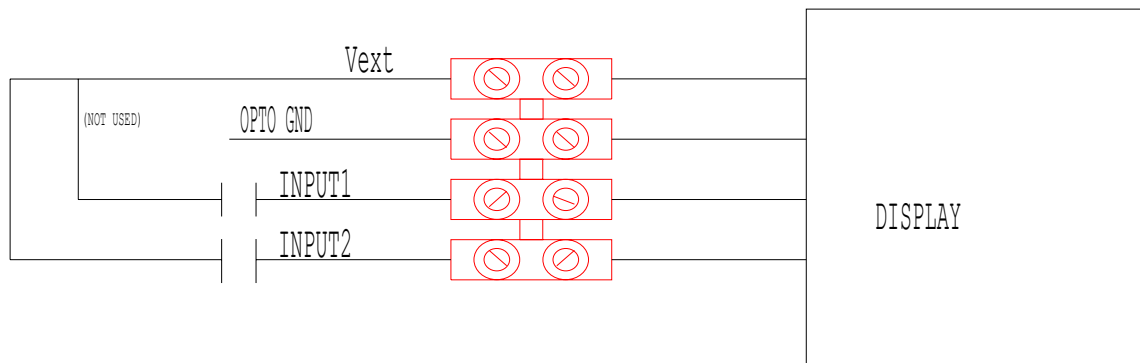


Figure A

'Wet' Contact Configuration:

To use 'wet' contacts, the user must supply power to activate the desired optically coupled input. The user may also wish to provide a contact closure in this circuit. The user's power supply must be capable of providing approximately twenty milli-amperes of current at 5 to 24 volts of direct current. If necessary, these inputs can also be ordered for use with higher voltages and / or with alternating current inputs. See Figure B.

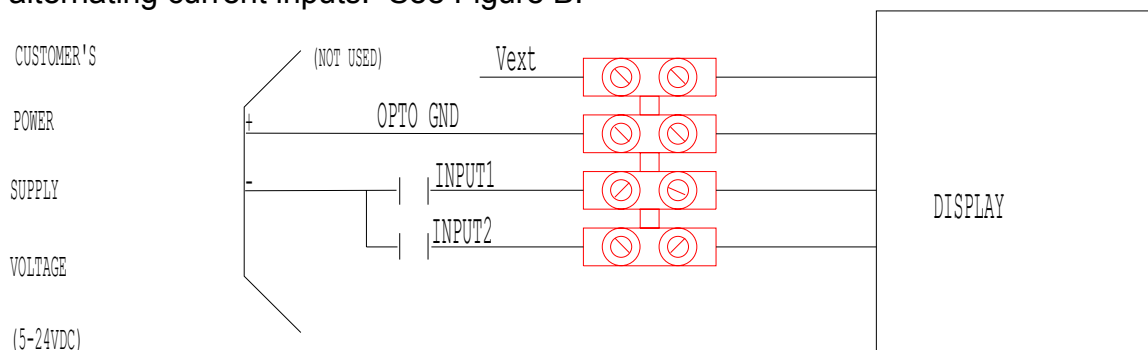


Figure B

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Power-up Response:

When power is first applied, the display will show what is set on the thumb-wheels. When the count input (labeled "IN1") is activated, the display will increment or decrement by 1.

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

Please visit us on the web at www.electronicdisplays.com

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