



Everbrite

lumiDigit® **II**

LED Electronic Price Display System

Owner/Operator Manual

ATTENTION!



The radio console is designed for long range communication. Use at close distances may cause inconsistent operation.

As a rule, always test and/or operate at distances of 15 feet (5 meters) or greater.

VOLUME VII

IN00946P

Rev. 06/01/2010

© Copyright Everbrite LLC® 2007-2010

This is the exclusive property of Everbrite® LLC. Use or duplication of this document in any manner without the expressed written consent of Everbrite® LLC is prohibited.

The information contained in this document is subject to change without notice and should not be construed as a commitment by Everbrite® LLC.

Everbrite® LLC assumes no responsibility for any errors that may appear in this document. Nor does it make expressed or implied warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Everbrite® LLC shall not be liable for incidental or consequential damages in connection with, or arising out of the furnishing, performance, or use of this document and the program material, which it describes.

Trademarks Credits

Everbrite® is a registered trademark of Everbrite LLC.
lumiDigit II® is a registered trademark of Everbrite LLC.

Table of Contents

1. Manual Overview	2
2. Safety.....	3
3. lumiDigit II Basic Operation.....	4
A. Sign Features	4
B. Console Features	5
C. Key Identification	6
4. Sign Operation.....	6
A. Access Code	6
B. Current Prices.....	7
C. System Tests	7
D. System Setup	7
E. Sign Status.....	9
F. Price Entry	9
5. Troubleshooting	10
6. Warranty	11
7. Contact Information	12

1. MANUAL OVERVIEW

This manual is intended for the user of Everbrite’s lumiDigit II Sign using the Model 6002 Console. Read this manual carefully before starting the equipment.

This manual contains important information for correct operation and maintenance of the equipment. It also contains important instructions to prevent accidents, personal injury, and/or serious damage prior to or during operation of the equipment. Familiarize yourself thoroughly with the function and operation of this equipment and strictly observe the directions given.

If you have any questions or need further details on specific aspects related to the lumiDigit II Sign, please do not hesitate to contact us. In this manual you will find three levels of flagged notes or warnings.



WARNING! THE WARNING MESSAGE IS USED WHEN A LIFE THREATENING SITUATION MAY ARISE OR PERSONAL INJURY CAN RESULT.



CAUTION! The caution message is used when there is a danger of damage to the equipment, materials, or other important information, such as Warranty issues.

NOTE: The Note message is used to give operational information and useful tips.

2. SAFETY

The owner of the lumiDigit II Sign is responsible for safe operation and repair. Therefore, the owner is obliged to familiarize operating personnel with the contents of this manual and make them aware of all possible hazards.

NOTE: When using this equipment, always follow the manufacturer's instructions for safe operation. In case of emergency, please telephone Technical Support or a qualified service technician.

Do not operate the sign until it is completely assembled and installed per the instructions supplied by Everbrite.

Everbrite recommends that your main power be installed by a licensed electrician in accordance with the local building and electrical codes.

All equipment must be grounded in accordance with the local building and electrical codes. Everbrite recommends Earth Link Ground.

If any part of the lumiDigit II Sign equipment is malfunctioning or has been damaged, stop all operation and consult with Everbrite Technical Support or qualified service technician before further use.

Use only Everbrite specified or recommended replacements parts.



WARNING! USE A LOCK OUT/TAG OUT DEVICE ON CIRCUIT BREAKERS OR "POWER ON/OFF" SWITCHES WHEN PERFORMING INSTALLATION REPAIRS, OR MAINTENANCE.

When performing repairs be mindful of the weather and work area conditions. Avoid the unit's exposure to the elements, water and debris, or anything that may be dangerous or cause damage to the equipment.



WARNING! OPERATION OF THE UNIT WITH THE ELECTRICAL CIRCUITRY EXPOSED IS DANGEROUS. BE SURE ALL TOOLS AND ANY OTHER MATERIALS ARE REMOVED FROM THE UNIT. BE SURE ALL ACCESS COVERS ARE REPLACED AND CLOSED BEFORE POWER IS TURNED ON.



CAUTION: Use of solvent cleaners or a power washer on your lumiDigit II Sign may cause permanent damage.

3. USER MANUAL FOR lumiDigit II

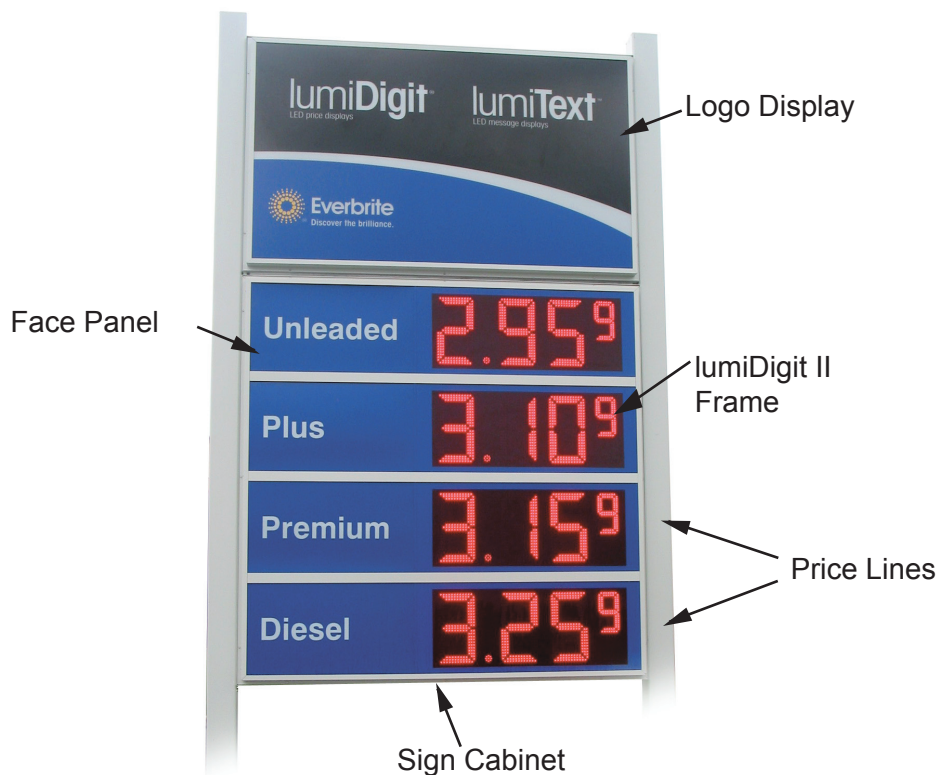
A. Sign Features

lumiDigit II is a modular LED (light emitting diode) gas price sign. Numbers that make up the prices are made using strings of LEDs, which make up 7 segments. The proper segments are combined to make all possible numbers. The LEDs are driven by electronics on the digit PCB (printed circuit board).

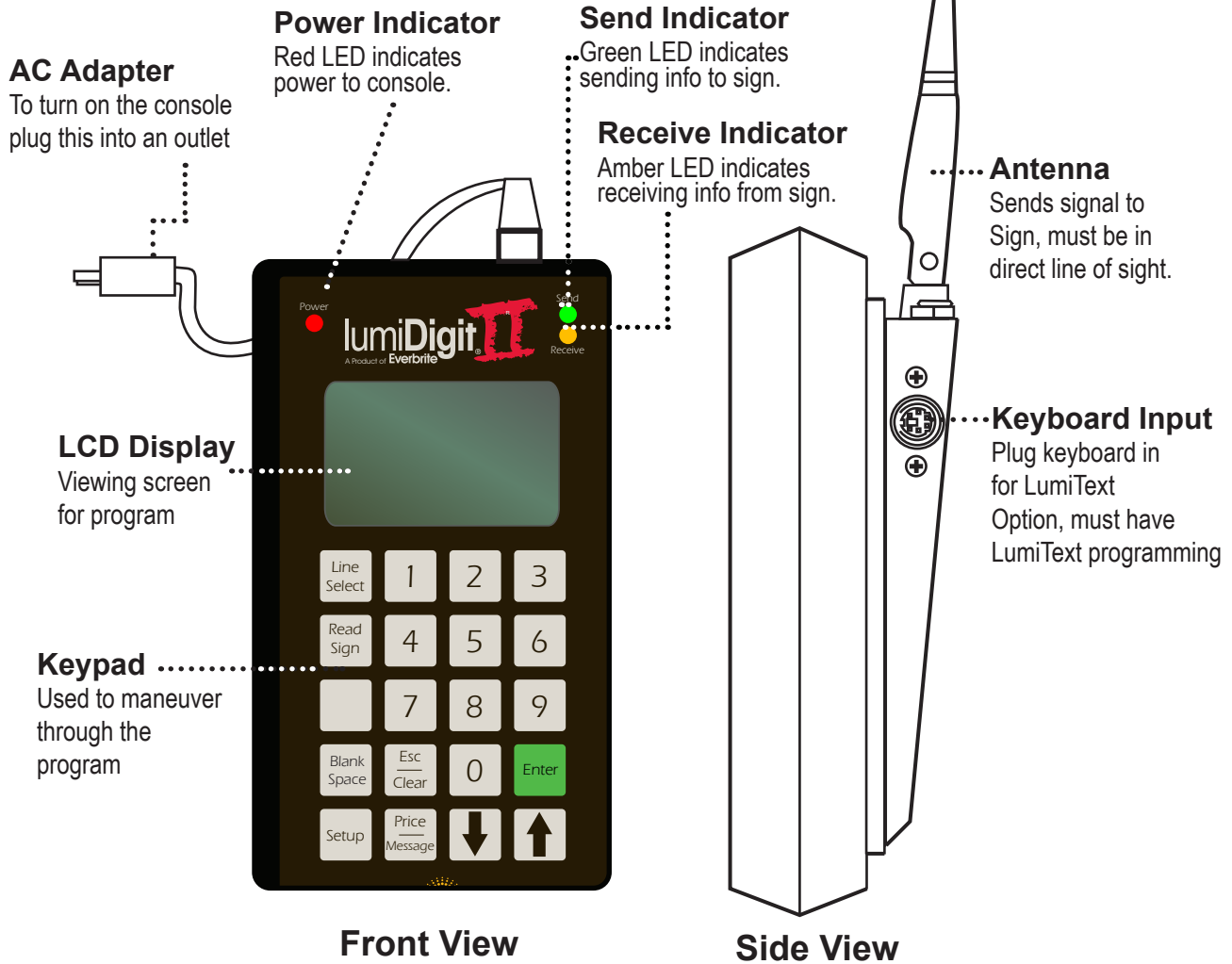
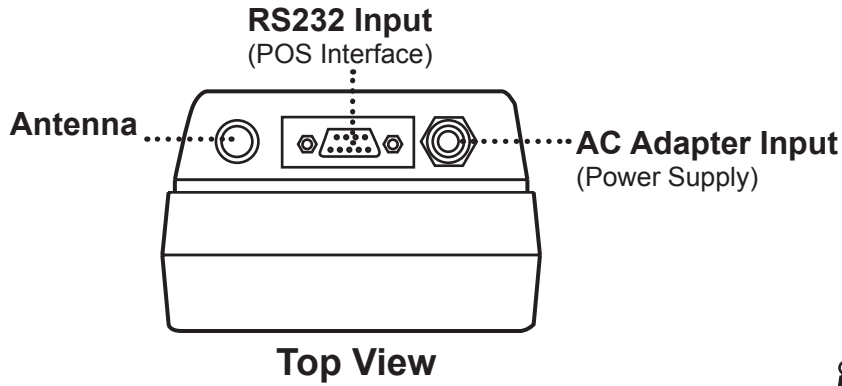
Information and power are sent to the Price Line Digits by a wire harness. AMP “MATE’N LOK” connectors are used to ensure good connections between digits, wiring harnesses, light sensors, temperature sensor, controller, and power supplies.

The controller is the heart of the sign. It sends data through the harness to each price line and the digits connected. It receives and sends temperature and light level information. The console sends and receives information to and from the controller by way of radio.

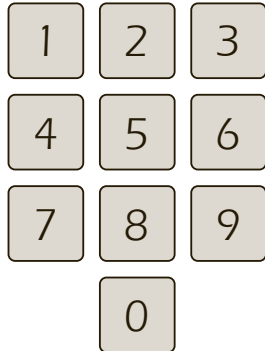
The operator can control the sign by interacting with the console keypad and LCD display. The intensity levels at daytime or nighttime and the level at which the lamps turn on are all controlled by the settings the operator inputs into the console keypad. The sign feeds back information such as the % of maximum intensity for each side, temperature of the sign and sign controller, actual prices of each line, number of signs, and the vital information of each.



B. Console Features



C. Key Identification



Number Keys:
Used to enter in gas prices, select lines, and adjust light levels

To insert a blank space in place of the digit, see “Blank Space” description.



Enter:
Locks in a value, or goes to the next screen



Setup:
Used to go into the price sign setup screen



Price/Message:
Used to alternate between the lumiDigit II sign and LumiText screens



Line Select:
In the price entry screen, lets user pick a gas price



Read Sign:
Loads the current prices from the sign to display them on the console’s display screen



Esc/Clear:
Used to go back a screen or exit



Blank Space
When entering prices, a blank space may be inserted rather than a zero by pressing this button. May also be used to blank the tenths digit.



Arrows:
Used to move up or down in the lumiDigit II screens



4. SIGN OPERATION

A. Access Code

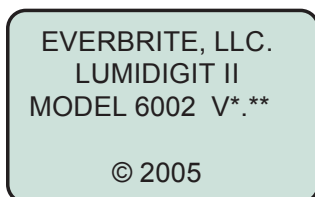


FIG. 1: START UP SCREEN

Power Up:

Power Up, Access Code, and Current Prices screens are the first screens to display. **** Represents the version of software the program runs on.

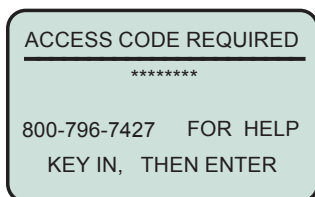


FIG. 2: ACCESS CODE SCREEN

Access Code:

Only appears the very first time the console is turned on. This has an eight digit code that needs to be entered to gain access to the program. The Current Prices screen will be the normal screen shown on subsequent power ups. Please have the information on the form on page 13 filled out before you contact Technical Support to receive your access code.





FIG. 3: CURRENT PRICE

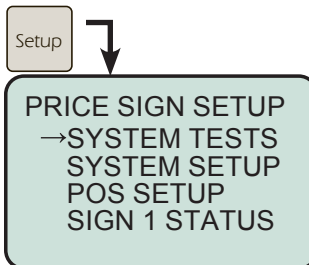


FIG. 4: PRICE SIGN SETUP

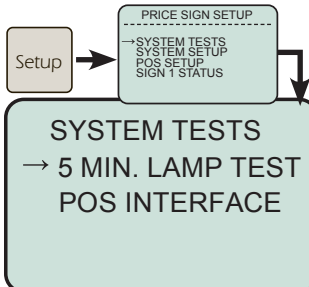


FIG. 5: SYSTEM TESTS

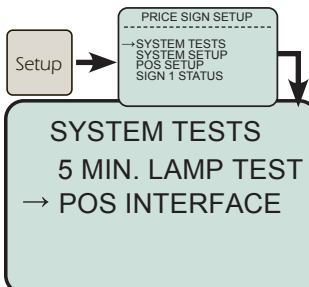


FIG. 6: POS INTERFACE

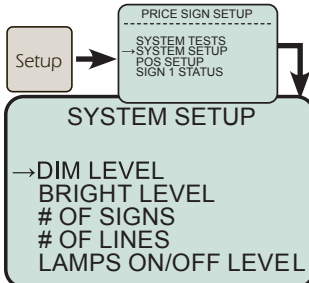






FIG. 7: SYSTEM SETUP


B. Current Prices/Main:

This screen is the normal Price Sign display with the current prices stored in memory displayed in place of the * .*** shown left. The number of price lines displayed will be based on the number of lines that the system was programmed for in the “Setup” process.




Price Sign Setup:

Press the  key to enter the Price Sign Setup screen, shown Fig. 4. The Price Sign Setup screen allows the operator to access setup functions, run tests, and receive current sign status information.




The  and  arrow keys and the  key are used to navigate through the various setup screens.




The  is used to cancel or go back to the previous screen.

C. System Tests:




From the screen shown in Fig. 4 press the  or  key to point to the SYSTEM TESTS prompts. Press  to open the System Tests screen shown in Fig. 5.

Lamp Test/ POS Interface:

To start the lamp test press the  or  key to point to 5 MIN LAMP TEST. Press the  key to start the test. The lamps will be on for 5 minutes and then shut off. No other tests can run during this time.

Press the  or  key to point to the POS INTERFACE test prompt. Press  to start the POS test. The data received will be displayed on the screen. POS must be setup in the Price Sign Setup screen prior to test.

D. System Setup:

From the Price Sign Setup Screen, press  or  to point to SYSTEM SETUP then press  to open the SYSTEM SETUP screen shown in Fig. 7.

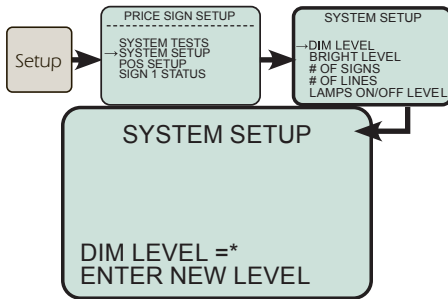


FIG. 8: DIM LEVEL

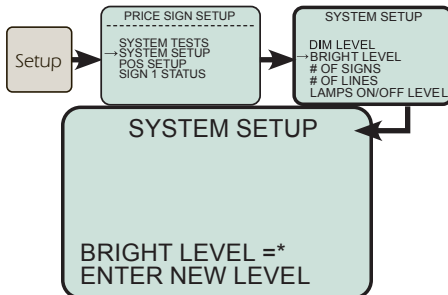


FIG. 9: BRIGHT LEVEL

Note: To avoid having the LEDs pulse between different levels of brightness due to different sources of artificial light (automobiles, etc), the levels operate with a timed delay. Any changes to the Dim and Bright levels will not be instantaneous.

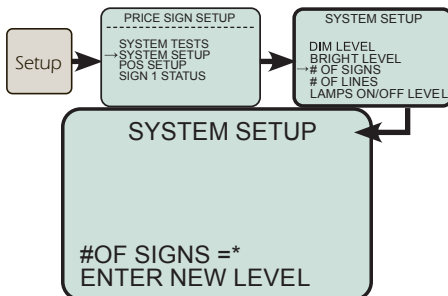


FIG. 10: NUMBER OF SIGNS

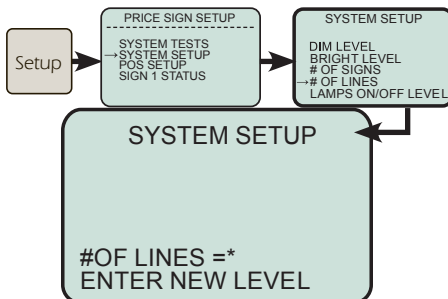










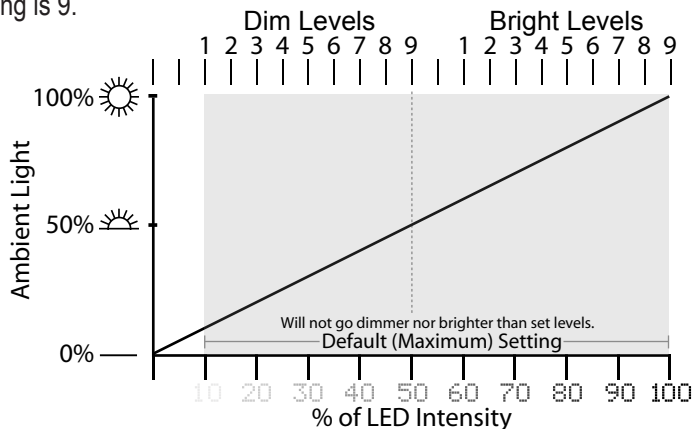
FIG. 11: NUMBER OF LINES

Dim Level (Nighttime LED Brightness):





Press the  or  key to point to the DIM LEVEL prompt, then press  to set the dim level shown in Fig. 8. Ambient light is measured by a photo cell on both sides of the sign. The LEDs will become dimmer as nighttime approaches. The Dim Level tells the sign to not get dimmer than a certain value. Key in the desired value 1-9 then  to send the new value to the sign, the default setting is 1.

Bright Level (Daytime LED Brightness):





From the SYSTEM SETUP screen, press the  or  key to point to the BRIGHT LEVEL prompt, then  to set the bright level shown in Fig. 9. Ambient light is measured by a photo cell on both sides of the sign. The LEDs will become brighter in the daytime. The Bright Level tells the sign to not get brighter than a certain value. Key in the desired value 1-9 then  to send the new value to the sign, the default setting is 9.



Number of Signs:

From the SYSTEM SETUP screen, press the  or  key to point to the # OF SIGNS prompt, then press  to set the number of signs shown in Fig. 10. From 1-3 signs can be set. Key in the number of signs, then  to save the new value.

Number of Lines:

From the SYSTEM SETUP screen, press the  or  key to point to the # OF LINES prompt, then press  to set the number of price lines shown in Fig. 11. From 1-5 lines can be set. Key in the number of lines, then  to save the new value.

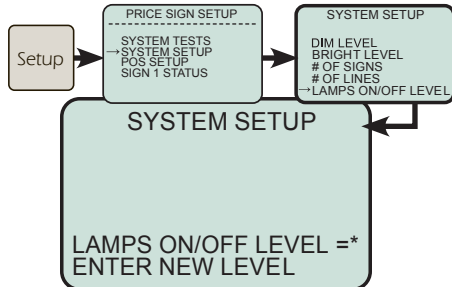


FIG. 12: LAMPS ON/OFF

Lamps ON/OFF Level:

From the SYSTEM SETUP screen, press or to point to the LAMPS ON/OFF LEVEL prompt, then to set the point at which the lamps are turned ON and OFF as shown in Fig. 12. Levels 1-9 reflect the intensity of ambient light. Key in the value, then press to send the new value to the sign. For example, to set the lamps to turn on earlier in the day (when there is more ambient light present), set the level to 9. To set the lamps later in the day (when there is less ambient light), set the level to 1. The default level is 5.

Note: To avoid having the sign turn on and off due to different sources of artificial light (automobiles, etc), the relay operates with a time delay. Any changes to the lamp settings will not be instantaneous.

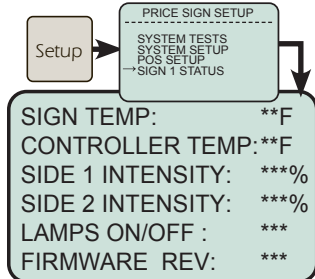


FIG. 13: SIGN STATUS

E. Sign Status:

From the PRICE SIGN SETUP screen, press or to point to the SIGN STATUS prompt, then press to request the sign status information from the sign. The sign will return the information as shown in Fig. 13.

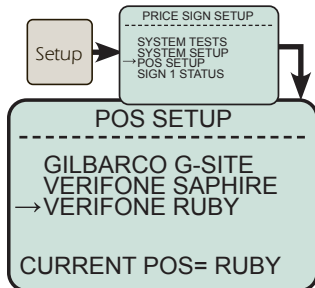


FIG. 14: POS SETUP

F. POS Setup:

From the PRICE SIGN SETUP screen, press or to point to the POS SETUP prompt, then press . Select the correct POS system that will be connected to the input on the back of the console and press . Test the POS Interface by selecting System Tests from the main SETUP menu.

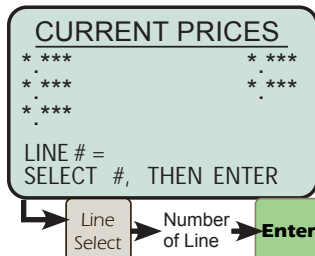


FIG. 15: CURRENT PRICES

G. Price Entry:

From the CURRENT PRICES screen, press key to begin the price change process. Fig. 15 will be displayed. Key in the desired price line 1-5, then press . 4 digits must be entered to account for the tenths of a penny (Enter 2999 for \$2.99⁹). This screen shown in Fig. 16 will be displayed. The current price for the selected line will be displayed in the **** locations. To insert a Blank Space anywhere in the price line, press the key.

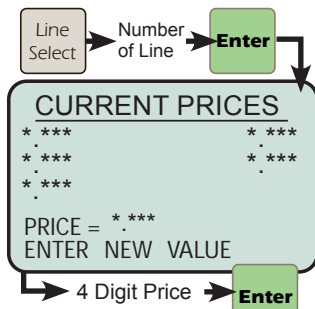


FIG. 16: PRICE ENTRY

Price Entry Cont.:

Key in the 4 digit price, then press to send the new value to the sign. The new price will show on the display and PLEASE WAIT will appear on the screen. After a delay of about 2 seconds, PLEASE WAIT will disappear with the new price remaining on the display.

5. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Entire Sign is Blank	No power to sign Installation wiring problem Sign wiring problem Defective power supplies	Verify the Sign Circuit Breaker is ON. Verify that Sign disconnect switch is ON. Call Everbrite Technical Support.
Only Decimal Points are Lit	0.000 Prices have been entered	Enter valid Prices.
One Side of the Sign is Blank	Power supply fuse Defective power supply Wiring/connection problem	Call Everbrite Technical Support.
Sign Prices Will Not Change	Access code required. Communication problem. Not in line of sight (radio) or too close to sign. Console and/or controller defective.	Contact technical support for code. Move to direct line of sight and at least 15 feet from sign. Reset power to system and re-send prices. Contact Everbrite if above attempts fail.
Both Sides of Sign are too Dim	Dim setting is too low Bright setting is too low Sign controller problem	Set dim setting to a higher value. Set bright setting to a higher value Contact Everbrite Technical Support
Both Sides of Sign are too Bright	Bright setting is too high Dim setting is too high Sign controller problem	Set bright setting to a lower value Set dim setting to a lower value Contact Everbrite Technical Support
Console LCD is Blank	Defective control console Defective AC adapter AC receptacle problem	Check Red Power LED Indicator; pulsing indicates a defective AC adapter. Check AC in another outlet. Contact Everbrite Technical Support.
Lamps Won't Turn On/Off	Setting incorrect in program, photosensor, or controller. Lamp control problem	Change lamp control on/off level by using the console. Contact Everbrite Technical Support.

6 . WARRANTY

Two Year Limited Warranty for LumiDigit LED Price Signs

LumiDigit, EMC LED price signs and retrofit kits are warranted to be free from defects in material and workmanship for a period of two (2) years, from the date of shipment. During this period, replacement parts will be furnished free of charge, except for lamps and fuses, which are the responsibility of the customer. Any parts found to be defective must be returned by contacting Everbrite and receiving a Return Goods Authorization number. Items replaced under warranty will be warranted for the remainder of the original product warranty period. Contact Everbrite at 1-800-769-7427 to report any defective conditions or warranty claims.

LumiDigit retrofit kits installed into existing signs are warranted only for the components supplied by Everbrite. An existing sign's ballasts, lamps, wiring and other components are excluded in this warranty. Failure to follow retrofit installation instructions, for example, not making the sign cabinet weather-tight, will void this warranty.

If the installation was provided by Everbrite, this warranty will include labor expenses for a period of one year from the date of shipment. Everbrite must be contacted to arrange for the warranty service labor. Unauthorized repairs will not be reimbursed.

If Everbrite does not provide original installation services, customer is responsible for contacting Everbrite to register and activate the sign/retrofit kit. See Instruction Manual for details.

Relocation of a LumiDigit sign or retrofit kit from the original address of activation voids the above warranty, unless Everbrite is contacted to handle the removal and reinstallation.

All products must be installed and operated in accordance with the manufacturer's recommended procedures and guidelines. Improper use or installation could void this warranty.

This warranty does not cover loss or damage due to accidents involving the product, acts of criminal aggression, other property disasters or acts of God. This includes but is not limited to improper installation conditions, mishandling, misapplication, faulty wiring, electrical surges, unauthorized attachments or modifications and improper maintenance.

Except for those warranties specifically and expressly set forth above, seller disclaims any and all warranties expressed, implied or statutory, including but not limited to, all warranties of merchantability and fitness for a particular purpose.

This equipment has been tested and found to comply with the limits for a class "A" digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the Owner's Manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. In this case, the user is required to correct interference at their expense.

Please contact Everbrite Technical Support for any problems that may occur or cannot be resolved through the troubleshooting steps.

Note: Installers, see retrofit installation and troubleshooting manual.

7. CONTACT INFORMATION

Technical Support & Customer Service: 1-800-796-7427

Everbrite Pardeeville Office: 1-608-429-2121

Website: www.everbrite.com

