INSTRUCTION SHEET



KEPCO An ISO 9001 Company.

Series EL

SERIES EL USB DRIVER

I — INTRODUCTION

This manual covers the installation and USB driver for the Kepco Series EL Electronic Loads available at www.kepcopower.com/support/drivers/drivers-dl3.htm#el

II — DRIVER INSTALLATION.

Follow the steps below to install the EL Load USB Drivers downloaded from the Kepco website. First download the EL Load USB driver file kepco_usb_serial_port_drivers.zip from

www.kepcopower.com/drivers/

Note the location of this zip file in your computer.

- Create a directory called Kepco USB Drivers at a known place on your computer (root directory or in My Documents, etc.).
- 2. Copy the two driver files (mchpcdc.cat and kepcocdc.inf) into the Kepco USB Drivers directory.
- 3. Apply power to the Series EL Electronic Load.
- 4. Connect the B end of a USB 2.0 cable into the B type USB port at the rear of the load.
- 5. Plug the A end of the cable into a USB port on your computer.
- 6. The computer responds with the Welcome to the Found New Hardware Wizard screen.



 Select the No, Not this Time radio button and click on Next>.

| Found New Hardware Wiz | ard | |
|------------------------|--|--|
| | Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy | |
| | Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and gvery time I connect a device No, not this time | |
| | Click Next to continue. | |
| | < <u>Back</u> Next > Cancel | |

 Select Install from a list or specific Location (Advanced) radio button and click on Next>

| Found New Hardware Wiz | ard |
|------------------------|---|
| | This wizard helps you install software for: Communications Port If your hardware came with an installation CD or floppy disk, insert it now. |
| | What do you want the wizard to do? Install the software automatically (Recommended) Install from a list or specific location (Advanced)) Click Next to continue. |
| | < <u>B</u> ack <u>N</u> ext > Cancel |

9. Click on the Search for the best driver in these locations radio button and check the box Include the location in the search.

 KEPCO, INC.
 • 131-38 SANFORD AVENUE
 • FLUSHING, NY. 11355 U.S.A.
 • TEL (718) 461-7000
 • FAX (718) 767-1102

 http://www.kepcopower.com
 • email: hq@kepcopower.com

- 10. Click on the Browse button and find the previously created Kepco USB Drivers folder.
- 11. When the folder location is displayed below the check box (shown in blue in the screen shot below, click on Next>.

| lease d | hoose your search and installation options. |
|--------------|---|
| <u>ی</u> | arch for the best driver in these locations. |
| Us | the check boxes below to limit or expand the default search, which includes local hs and removable media. The best driver found will be installed. |
| | Search removable media (floppy, CD-ROM) |
| | Include this ligcation in the search: |
| | c:\John Doe\My Documents\Kepco USB Drivers 🔽 📴 |
| O <u>D</u> o | n't search. I will choose the driver to install. |
| Chithe | oose this option to select the device driver from a list. Windows does not guarantee driver you choose will be the best match for your hardware. |
| | |

12.If the following dialogue box appears, click on Continue Anyway.

| Hardwa | re Installation |
|----------|--|
| <u>.</u> | The software you are installing for this hardware: Communications Port has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing. |
| | Continue Anyway |

13. The following installation progress screen appears.

| Found New Hardware Wizard | | | |
|---------------------------------|----------------------|------------------|--------|
| Please wait while the wizard in | nstalls the software | <u></u> | D |
| Communications Port | | | |
| Ď | ý | Þ | |
| | | | |
| | < <u>B</u> ac | k <u>N</u> ext > | Cancel |

14. When the installation is complete, the following dialogue box appears. Click on Finish.

| Found New Hardware Wiz | ard |
|------------------------|---|
| | Completing the Found New Hardware Wizard The wizard has finished installing the software for: |
| | Click Finish to close the wizard. |
| | <back cancel<="" finish="" td=""></back> |

15. You have now installed the EL USB drivers.

III — COMMUNICATION INTERFACE

To use a simple communications interface such as Hyper Terminal, you need to know which communications port (COM:XX) on your computer is being used by the USB connection.

1. To determine this, click START, then click on CONTROL PANEL and then select SYSTEM from the list in the Control Panel screen.



2. Select the Hardware tab.



3. Then click on Device Manager. This displays a list of hardware in your system.

| Device Manager | |
|---|---|
| Sie Action Yiew Help | |
| 10 # (? 01 3 | |
| Gomputer | 9 |
| (+) we Disk drives | |
| 🖲 😼 Display adapters | |
| (E) A DVD/CD-ROM drives | |
| Ga Human Interface Devices | |
| IDE ATA/ATAPI controllers | |
| (i) IEEE 1394 Bus host controllers | |
| 🕐 🤝 Keyboards | |
| Mice and other pointing devices | |
| (+) 🛃 Modems | |
| (i) 👰 Monitors | |
| III Network adapters | |
| PCMCIA adapters | |
| Ports (COM & LPT) | |
| + Processors | |
| 🕒 🎭 Smart card readers | |
| ③ 10, Sound, video and game controllers | |
| Storage volumes | |
| 🕫 👷 System devices | |
| Universal Serial Bus controllers | |
| 😥 🤯 WaveFDE | |

 Expand the Ports (COM & LPT) listing by clicking on the + symbol.

| B Device Manager | |
|---------------------------------------|--|
| Ble Action Yew Help | |
| + → 0 4 2 0 3 | |
| IN Network adapters | |
| PCMCIA adapters | |
| Ports (COM & LPT) | |
| J BT Part (COM10) | |
| - BT Port (COM11) | |
| BT Port (COM12) | |
| BT Part (COM13) | |
| - J BT Port (COM14) | |
| BT Port (COM20) | |
| BT Port (COM21) | |
| J BT Port (COM22) | |
| BT Port (COM+0) | |
| BT Port (COM41) | |
| BT Port (COM5) | |
| - F BT Port (COM7) | |
| - V Communications Port (COM1) | |
| Communications Port (COM8) | |
| - RIM Virtual Serial Port v2 (COM4) | |
| - W RIM Virtual Serial Port v2 (COM5) | |
| Processors | |
| Smart card readers | |

- 5. As you observe this list, unplug the USB Connector from your computer and observe which of the COM ports is removed from the list (it should reappear if you plug the USB Connector back into the computer). Note this COM port number for future reference.
- 6. Exit these programs with the USB cable plugged into your computer.
- 7. Launch Hyper Terminal by clicking on START, followed by All Programs, Accessories, Communications and finally HyperTerminal.

8. When Hyper Terminal is launched, assign a new connection name such as EL USB with the Connection Description dialogue box, then click OK.

| Connection Description | ? 🗙 |
|---|-----|
| New Connection | |
| Enter a name and choose an icon for the connection: | |
| Name: | |
| <u> </u> | |
| lcon: | |
| | 2 |
| | |
| OK Can | cel |

9. When the Connect To dialogue box appears, select the COM port you discovered above from the pull down menu in Connect Using and click OK.

- 10.Click OK for the USB port properties—USB connections do not use these properties.
- 11. When you click on OK you will go to the HyperTerminal main screen, the telephone icon should be "off hook" and you are connected to the Series EL load.
- 12. Typing *IDN elicits a response from the Series EL load such as:

Kepco Inc., EL-Series,12345,MCB #102 1.64 \$ 2009/02/06 15:35:41 \$ Compiled Feb 06 200910:37:12.

NOTE: It is important that you do not apply power to the EL load with HyperTerminal open because Hyper-Terminal tends to lock up if a USB connection is discovered after it is launched. The proper sequence is 1) power up the Series EL, 2) plug the USB connector into the computer (you will hear the familiar connection gong), then 3) launch HyperTerminal.