New Era Pump Systems Inc.
www.SyringePump.com
PUMPTERM.EXE

Compatibility with 64-bit PC processors.

Step 1: Install PUMPTERM Files

1. Extract all files in PUMPTERM.ZIP
2. Double-click extracted installation file: "**Install PUMPTERM.BAT**"

Files will be copied to folder **C:\PUMPTERM** and to the desktop with the icon:

PUMPTERM_shortcut.BAT

Execute **PUMPTERM** only from the desktop icon or the Excel file. Do not execute **PUMPTERM** directly. **"PUMPTERM.EXE"** is the main communications program and must be located in folder **C:\PUMPTERM**.

Step 2: Install DOSBox

1. Click here to download DOSBox for Windows
2. Execute the downloaded installation file: "**DOSBox0.74-win32-installer.exe**"
   Allow the program to install into the default folder.

Do not execute DOSBox directly, or change any of its settings. It runs in the background while PUMPTERM is running. "DOSBox" runs older DOS programs on new computers, including 64-bit processors. For other operating systems, or for more information about DOSBox:

- Visit the website **www.DOSBOX.COM**.
- On the website, select the "Downloads" link. Click on "Windows" Win32 installer, or select a different operating system, to download the DOSBox installer.

Step 3: Install USB to RS-232 Converter Cable

If using a USB converter cable, install the cable driver, if necessary, and attach the cable.

If not recognized: Click here to download an updated Prolific USB to RS-232 cable driver
Re-boot your computer after installing the updated cable driver.

Attach the primary RS-232 to pump cable "**CBL-PC-PUMP-7"** to the USB converter cable's 9 pin connector. Attach the other end to the pump's "To Computer", phone Jack style connector.

IMPORTANT: Do not use a 3rd party replacement cable for "**CBL-PC-PUMP-7".** It will not work.

The cable driver assigns a virtual Com Port number to the cable. PUMPTERM will automatically select the first active Com Port found. The Com Port setting can be manually configured if needed.

The Com Port number can be determined by selecting "**Devices and Printers**" on the "**Start**" menu, or **"Devices"** on the **"Settings"** screen, usually located in the "Unspecified" or "Other devices" section as "Prolific USB-to-Serial Comm Port (COM1)". COM1 indicates Com Port 1. Your Com Port number or description may be different. The Com Port number can be changed.

Configuration

In most situations, configuration is complete. No other configuration is needed.

"PUMPTERM_shortcut.BAT" will auto select the first active Com Port found before executing PUMPTERM. This also includes the **Pumping Program Generator Excel Spreadsheet**.

Com Port auto select can be disabled and set to a specific Com Port if required:

Edit the file "**PUMPTERM_shortcut.bat**", located on the desktop**,** with any text editor. Read the instructions in the file for further details on how to modify settings. For example, to select Com Port 3, set the configuration line to:

```
SET COM_PORT_NUM=3
```

Pumping Program Generator Excel Spreadsheet:

To modify settings from within the Excel Spreadsheet, under "Pump Setup"/"Communications Setup", set "Auto Configure Com Port" to "No". Then, set the Com Port settings as required. The Excel file executes the **"PUMPTERM_shortcut.BAT"** file located in folder c:\PUMPTERM, not the desktop.

Start PUMPTERM

Double-click the "**PUMPTERM_shortcut.BAT"** desktop icon to start PUMPTERM.

> "**New Era Pump Systems**" will appear at the top of the **PUMPTERM** main screen, indicating proper setup.

Once on the main screen, just pressing the "**enter"** key will get a status response from the pump. This indicates that communications is established with the pump. "Response_error" indicates a communications error with the pump.

Pumping Program Generator Excel Spreadsheet

Close **PUMPTERM** before opening Pumping Program Generator Excel files. Pumping programs can now be entered into the Excel file and uploaded to the pump by simply clicking on the pump picture in the Excel file. The pump will double beep to indicate successful program upload.

Troubleshooting

Most hardware problems are related to improperly attached cables. If the hardware is correct, then an incorrect com port number is the next likely cause. Third party RS-232 to pump cables (DB9 to RJ11/12) are not compatible.

Most software problems are related to incorrect file locations. Files must be located in the precise paths indicated in the spreadsheet and batch files. Some operating systems will install DOSBox in a path that is different from the default. In these situations, the batch file will need to be modified to indicate the correct DOSBox path, with a beginning similar to the following: "(*your operating system created path*)\DOSBox.exe"

DOSBox Error Files

DOSBox will create 2 files: "STDERR.TXT" and "STDOUT.TXT" on the desktop, or default Excel save folder. Review these files for error messages.