



Archiving on a 2400 Drive Using PC Term

1.0 PC Connection Set Up

NOTE: Sections 1.0 to 3.0 pertain to establishing communication. If the drive is already communicating you may proceed to [Section 4.0 Archiving](#)

The Series 2400 drive must be set up to talk to a PC with PC Term. PC TERM can be downloaded from our web site at <http://www.unicous.com/downloads>

To connect to the Unico drive, you would need a cable kit. Unico has available a USB to Serial Kit that allows connection to a PC via a USB port. The kit is isolated and uses a shielded cable designed for the noise ridden drive environment.

The 714-070 Basic Kit has all that is needed to communicate with the following Unico DSP module types:

1100 Drive X10, X27, CX10, AND CX15
2400 Drive E or S 80, E or S 27, E or S 28

For some other DSP module types, the following adaptor cables would need to be ordered in addition to the 714-070 basic kit:

(1) 203-291 Adaptor cable would be needed for a Unico 40M DSP Module
(1) 203-296 Adaptor cable would be needed for an 1100 Drive with X16, X20, or X40 type DSP Modules.

If you need to order these parts, please contact the [Unico Parts Department](#).

This USB kit requires the installation of driver software. This comes with the kit, or can be downloaded from our web site at: <http://www.unicous.com/downloads>

2.0 Drive Communication Set Up

2.1 Drive Communication to a Single Inverter or Convertor (Not on a Network)

There are several set ups in the drive that need to be set to allow communication. In most drive programs, these values are found in the COMMS menu, which is an option under SET UP / DICTIONARY. In most cases one will connect to the DOWNLOAD port, which is on the center left of the module.

download protocol	DRIVE MENU
download term type	RCA
download term size	24 x 40
download baud rate	(set to value set on archive, and set same in PC TERM)
download parity	NONE
download stop bits	1
download address	(don't care when Protocol is DRIVE MENU)
download checksum	BCC
download rtu gap	0
download units	(don't care)
download pos units	(don't care)

2.1 Drive Communication Set Up When There are Multiple Drives on One Network

There are several set ups in the drive that need to be set to allow communication. In most drive programs, these values are found in the COMMS menu, which is an option under SET UP / DICTIONARY. In most cases one will connect to the DOWNLOAD port on the DSP module, which is on the center left of the module. The settings should be set as follows:

download protocol	ANSI
download term type	RCA
download term size	24 x 40
download baud rate	(set to value set on archive, and set same in PC TERM)
download parity	NONE
download stop bits	1
download address	x
download checksum	BCC
download rtu gap	0
download units	(don't care)
download pos units	(don't care)

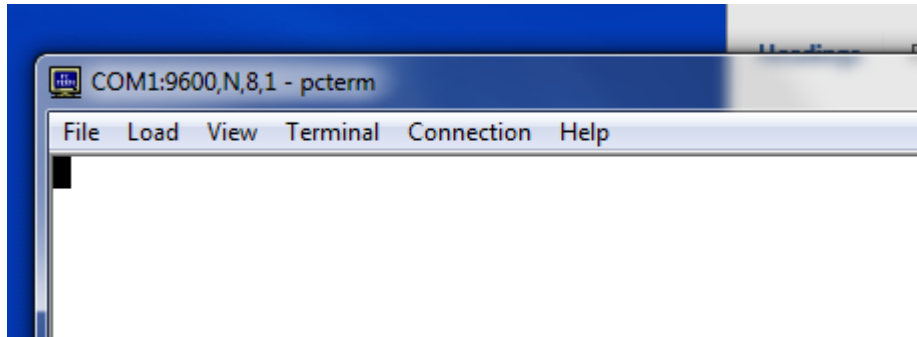
When several 2400 drives are on the same network. Typically they will be assigned 0 , 1, 2, on so on. In this case drives will not speak unless the proper log on sequence is performed for that drives address. Also be aware that no two devices on the network can have the same address. The sequence performed with PC TERM is as follows:

Control^D 00xxT

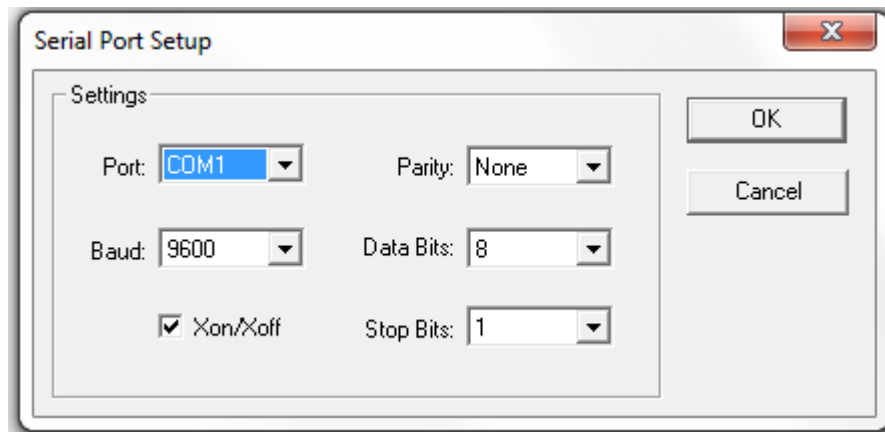
If the device was 0, the sequence would be Control^D 0000T. For 1 it would be Control ^D 0011T, and so on. Once you are logged on, the drive should communicate and archive upload and download functions can be performed. To log off, simply type Control^ D.

3.0 PC TERM Set Up

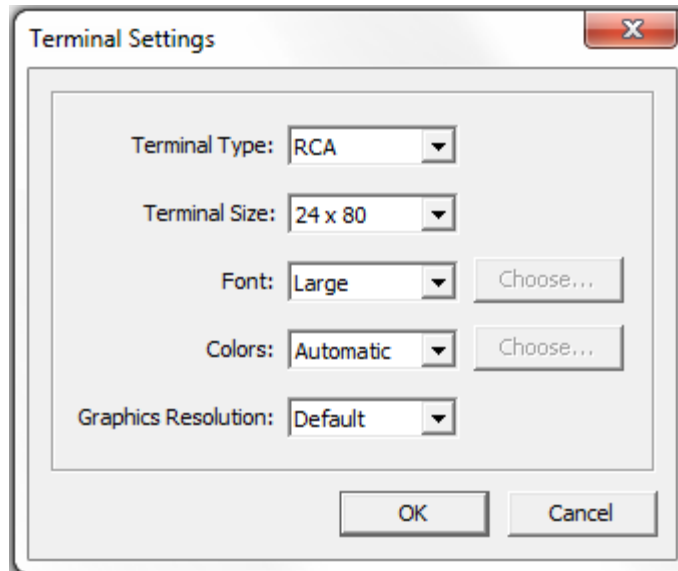
Once PC Term is loaded, you would need to check and adjust some settings in the PC TERM Tool Bar.



1. Under CONNECTION, the Port setting would need to be set to match the serial or USB port that your PC assigned. If in doubt what that is, the Device Manager should help with that.
2. Also under CONNECTION, the baud rate would need to be set to match what is set at the Unico drive, which also should be what the DOWNLOAD BAUD RATE is on the archive for the 2400 drive.



3. The TERMINAL pull down should also be checked. The TERMINAL TYPE should be to match the system set up, which in this case was set to RCA.



The PC should be powered up before powering up the 2400 drive so it is ready to receive information once the drive sends it.

Cycle power. The drive start screen should come up. Once communications are established you can proceed with the uploading and downloading functions.

4.0 Archiving

To Upload Archive Set Up Values

Note: “Uploading” copies set ups from the drive into a file.

1. Verify that the baud rate the drive is communicating with matches the baud rate on the archive. If it is different, both the drive and PC TERM baud rates should change to match the archive.
2. On the PC Term drive display, go to the ARCHIVE MENU under SET UP menu.
3. Select UPLOAD.
4. If requested, select the UNITS as directed.
5. Select the FILE pull down on PC Term and select CAPTURE TEXT. Choose a name for this file when prompted and select SAVE. Press the RETURN key which should start the screen scrolling with parameters as they are being stored to that file.
6. Select CAPTURE TEXT again which should uncheck it. The parameters should be saved. You can open this simple text file and verify the parameters are present.

To Download Set Up Values

Note: “Downloading” is to load values from an existing test file previously created into a drive.

1. Select SET UP, then “ARCHIVE and then DOWNLOAD from the PC Term drive display.
2. Select “ARCHIVE and then select DOWNLOAD from the PC Term drive display.
3. Select the LOAD pull down on PC Term. Then select “ASCII File Send” or alt l.
4. Type in the file name of where the values are coming from, and click on open. A progress bar should appear showing the transfer.
5. Once the download is completed, make note of any errors. Type the ESCAPE key as requested.
6. The drive should restart. You may need to reselect the baud rate in PC Term since the download may have changed that.
7. Verify a few parameters to make sure that the download was successful.

