

## **PL $\mu$ SNet II Upload/Download Program (Must use version 2.34 or higher)**

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<b>Description</b>	<p>PL<math>\mu</math>SNet II is a DOS program that will run on most IBM-PC compatible computers. When the serial port of the PC is connected to a PL<math>\mu</math>S Programmable Limit Switch, PL<math>\mu</math>SNet II can transfer programming values between the computer and the controller in either direction. PL<math>\mu</math>SNet II includes its own communications software with selection of baud rate, PL<math>\mu</math>S controller address, and the computer's COM port. No other communication software is needed.</p>
<b>Functions</b>	<p>PL<math>\mu</math>SNet II provides two main functions: <b>Uploading</b> a controller's complete set of programming values from the controller to an ASCII file on the PC; and <b>downloading</b> the contents of an ASCII from a computer to the PL<math>\mu</math>S controller. PL<math>\mu</math>SNet II also provides a text editor to view and change the contents of an ASCII file.</p>
<b>Applications</b>	<p><b>Hard Copy Reference</b>—Using PL<math>\mu</math>SNet II, a PL<math>\mu</math>S controller's programming can be saved as an ASCII file and printed out for reference. The printout can be used to study line operation or to program other PL<math>\mu</math>S controllers in the plant.</p> <p><b>Archival Storage</b>—The ASCII file containing a PL<math>\mu</math>S controller's programming can be stored on a hard drive or floppy disk. In the event of accidental alteration or erasure of the controller's programming, PL<math>\mu</math>SNet II can be used to download the ASCII file to the controller to restore normal operation.</p> <p><b>Programming Multiple Units</b>—If several PL<math>\mu</math>S controllers will have the same values, one controller can be programmed correctly and its setpoints uploaded to a PC using PL<math>\mu</math>SNet II. The programming can then be downloaded to the other PL<math>\mu</math>S controllers, eliminating the need to manually re-enter setpoints for each controller.</p> <p><b>Modify Programming</b>—Once a program has been saved as an ASCII file, it can be studied and edited to create other versions of the program.</p>
<b>Contents</b>	<p>The PL<math>\mu</math>SNet II Communications Software Program includes these materials:</p> <ul style="list-style-type: none"><li>(1) Introduction sheet.</li><li>(1) Vinyl diskette holder with two diskettes: One containing the PLUSNET.EXE file, one to store uploaded files.</li></ul>
<b>Cable</b>	<p>To use PL<math>\mu</math>SNet II, a serial communications cable is required to connect the PL<math>\mu</math>S controller to an IBM compatible personal computer. This cable can be purchased from Electro Cam Corp., or it can be built by the customer using the wiring information shown in the PL<math>\mu</math>S Programming and Installation Manual.</p>
<b>Installation</b>	<p>Copy the PLUSNET.EXE file to the desired directory on the PC.</p>
<b>Operation</b>	<p>Connect the PC and the PL<math>\mu</math>S controller with a communications cable and turn both units ON.</p> <p>Start PLUSNET.EXE from the DOS command line, or from a DOS window within Microsoft Windows. The menus in the program are self-explanatory.</p>

## PLuSNET II Program (cont'd)

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### Sample ASCII Program Copied from PS-6244 Using PLuSNET II

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2: 6244 ;Model
3: 197 ;Firmware revision
4: 24 ;Output quantity
5: 5,1 ;Option: -H; High resolution
5: 7,1 ;Option: -A; Analog output
6: 1 ;Default Program
7: 1,400,400 ;Speed comp (.1mS): chn, leading, trailing
7: 3,350,350 ;Speed comp (.1mS): chn, leading, trailing
7: 6,100,100 ;Speed comp (.1mS): chn, leading, trailing
9: 1,90 ;Offset: group#, offset
11: 1,10,3000 ;Motion detection: level#, low rpm, high rpm
11: 2,10,200 ;Motion detection: level#, low rpm, high rpm
16: 1 ;Keyboard quantity
17: 1 ;Direction of increasing rotation: 0=CCW, 1=CW
18: 1000 ;Scale factor
19: 0 ;Shaft offset
20: 0 ;Analog quantity
21: 0 ;Resolver type: 0=ECC, 1=Other
22: 1 ;Program select mode: 0=bin, 1=BCD, 2=Gray
24: 0 ;Time base: 0=1mS, 1=.5mS, 2=.2mS
25: 1,1 ;Termination resistors: grp1 on/off, grp2 on/off
27: 1,1,0,0 ;Rate setup: mpx, div, dec pt, units
28: 50 ;Toggle rpm
29: 1 ;Rpm update rate: 0=1/Sec, 1=2/Sec, 2=10/Sec
30: 0 ;Speed comp mode: 0=Single, 1=L/T
31: 0 ;Group pos display mode: 0=Each, 1=One
32: 1 ;Operator ID number
33: 2 ;Setup ID number
34: 3 ;Master ID number
35: 1;1,1,1,1,1,1,1,1,1,1 ;Per chn enable: chns 1-8; chn on/off
35: 2;1,1,1,1,1,1,1,1,1,1 ;Per chn enable: chns 9-16; chn on/off
35: 3;1,1,1,1,1,1,1,1,1,1 ;Per chn enable: chns 17-24; chn on/off
35: 4;0,0,0,0,0,0,0,0,0,0 ;Per chn enable: chns 25-32; chn on/off
36: 1 ;Operator enable: Setpoints
37: 1 ;Operator enable: Default program
38: 1 ;Operator enable: Speed comp
39: 1 ;Operator enable: Timed outputs
40: 1 ;Operator enable: Offsets
41: 1 ;Operator enable: Motion detection
43: 1;0,1,2,0,0,0,0,0,0,0 ;Motion ANDing: chns 1-8; chn levels (0=none)
43: 2;0,0,0,0,0,0,0,0,0,0 ;Motion ANDing: chns 9-16; chn levels (0=none)
43: 3;0,0,0,0,0,0,0,0,0,0 ;Motion ANDing: chns 17-24; chn levels (0=none)
43: 4;0,0,0,0,0,0,0,0,0,0 ;Motion ANDing: chns 25-32; chn levels (0=none)
45: 1 ;Output group quantity
46: 1,24,0 ;Output group config: group, #chns, mode
47: 1 ;Enable input quantity
49: 1,1,0,90 ;Pulse: pgm, chn, on, off
49: 1,2,0,90 ;Pulse: pgm, chn, on, off
49: 1,3,0,90 ;Pulse: pgm, chn, on, off
49: 1,4,0,90 ;Pulse: pgm, chn, on, off
49: 1,5,0,90 ;Pulse: pgm, chn, on, off
49: 1,6,0,90 ;Pulse: pgm, chn, on, off
49: 1,7,0,90 ;Pulse: pgm, chn, on, off
49: 1,8,0,90 ;Pulse: pgm, chn, on, off
49: 1,9,0,90 ;Pulse: pgm, chn, on, off
49: 1,10,0,90 ;Pulse: pgm, chn, on, off
49: 1,11,0,90 ;Pulse: pgm, chn, on, off
49: 1,12,0,90 ;Pulse: pgm, chn, on, off
49: 1,13,0,90 ;Pulse: pgm, chn, on, off
49: 1,14,0,90 ;Pulse: pgm, chn, on, off
49: 1,15,0,90 ;Pulse: pgm, chn, on, off
49: 1,16,0,90 ;Pulse: pgm, chn, on, off
49: 1,17,0,90 ;Pulse: pgm, chn, on, off
49: 1,18,0,90 ;Pulse: pgm, chn, on, off
49: 1,19,0,90 ;Pulse: pgm, chn, on, off
49: 1,20,0,90 ;Pulse: pgm, chn, on, off
49: 1,21,0,90 ;Pulse: pgm, chn, on, off
49: 1,22,0,90 ;Pulse: pgm, chn, on, off
49: 1,23,0,90 ;Pulse: pgm, chn, on, off
49: 1,24,0,90 ;Pulse: pgm, chn, on, off
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**NOTE: Some functions may be listed on printout that are not actually in the unit.**