PLusNet II Upload/Download Program

Description

PL μ 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 μ S Programmable Limit Switch, PL μ SNet II can transfer programming values between the computer and the controller in either direction. PL μ SNet II includes its own communications software with selection of baud rate, PL μ S controller address, and the computer's COM port. No other communication software is needed.

Functions

PL μ SNet II provides two main functions: **Uploading** a controller's complete set of programming values from the controller to an ASCII file on the PC; and **downloading** the contents of an ASCII from a computer to the PL μ S controller. PL μ SNet II also provides a text editor to view and change the contents of an ASCII file.

Applications

Hard Copy Reference—Using PL μ SNet II, a PL μ 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 μ S controllers in the plant.

Archival Storage—The ASCII file containing a $PL\mu S$ 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, $PL\mu SNet II$ can be used to download the ASCII file to the controller to restore normal operation.

Programming Multiple Units—If several PL μ S controllers will have the same values, one controller can be programmed correctly and its setpoints uploaded to a PC using PL μ SNet II. The programming can then be downloaded to the other PL μ S controllers, eliminating the need to manually reenter setpoints for each controller.

Modify Programming—Once a program has been saved as an ASCII file, it can be studied and edited to create other versions of the program.

Contents

The PLµSNet II Communications Software Program includes these materials:

- (1) Introduction sheet.
- (1) One disk containing the PLUSNET.EXE file.

Cable

To use $PL\mu SNet$ II, a serial communications cable is required to connect the $PL\mu S$ 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 $PL\mu S$ Programming and Installation Manual.

Installation

Copy the PLUSNET.EXE file to the desired directory on the PC.

Operation

Connect the PC and the PL $\!\mu S$ controller with a communications cable and turn both units ON.

Start PLUSNET.EXE from the DOS command line, or from a DOS window within Microsoft Windows. The menus in the program are self-explanatory.

Sample ASCII Program Copied from PS-6144 Using PLµSNET II

```
:Model
2: 6144
3: 316
                        ;Firmware revision
4: 17
                        Output quantity
                        ;Option: -H; High resolution
5: 5,1
                        ;Option: -L; Leading/trailing speed comp
5: 6.1
                        ;Option: -A; Analog output
5: 7,1
                        :Default Program
6: 1
                        ;Offset: group#, offset
9: 1,0
9: 2,0
                        ;Offset: group#, offset
                         ;Analog output: Analog chn#, offset, high RPM
10: 1,0,2000
                         :Motion detection: level#, low rpm, high rpm
11: 1,10,3000
                         ;Motion detection: level#, low rpm, high rpm
11: 2,10,3000
14: 0
                        ;Map limit
                         Keyboard quantity
16: 1
17:0
                         ;Direction of increasing rotation: 0=CCW, 1=CW
18: 360
                        ;Scale factor
                        :Shaft offset
19: 0
                        :Analog quantity
20: 1
                         ;Resolver type: 0=ECC, 1=Other
21: 0
22: 0
                        ;Program select mode: 0=bin, 1=BCD, 2=Gray
                         :Time base: 0=1mS, 1=.5mS
24: 0
                         ;Termination resistors: grp1 on/off, grp2 on/off
25: 1,1
                         ;Rate setup: mpx, div, dec pt, units
27: 1,1,0,0
28: 20
                        ;Toggle rpm
29: 0
                         ;Rpm update rate: 0=1/Sec, 1=2/Sec, 2=10/Sec
                        ;Speed comp mode: 0=Single, 1=L/T
30: 1
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
                        ;Per chn enable: chns 1-8; chn on/off
35: 1;1,1,1,1,1,1,1,1
                        ;Per chn enable: chns 9-16; chn on/off
35: 2;1,1,1,1,1,1,1,1
35: 3;0,0,0,0,0,0,0,0
                        ;Per chn enable: chns 17-24; chn on/off
36: 1
                         Operator enable: Setpoints
37: 1
                        ;Operator enable: Default program
38: 1
                        Operator enable: Speed comp
                        ;Operator enable: Timed outputs
39: 1
                        ;Operator enable: Offsets
40: 1
41: 1
                        ;Operator enable: Motion detection
                        ;Operator enable: Analog values
42: 1
                        ;0,0,0,0,0,0,0,0;Motion ANDing: chns 1-8; chn levels (0=none)
43: 1
                        ;Motion ANDing: chns 9-16; chn levels (0=none)
43: 2;0,0,0,0,0,0,0,0
                        ;Motion ANDing: chns 17-24; chn levels (0=none)
43: 3:0.0.0.0.0.0.0.0
44: 1;0,0,0,0,0,0,0,0
                        ;Output enable ANDing: chns 1-8; chn on/off
44: 2:0.0.0.0.0.0.0.0
                        Output enable ANDing: chns 9-16; chn on/off
44: 3;0,0,0,0,0,0,0,0
                        ;Output enable ANDing: chns 17-24; chn on/off
45: 2
                         Output group quantity
                        ;Output group config: group, #chns, mode
46: 1,10,0
46: 2,6,4
                        Output group config: group, #chns, mode
                         ;Pulse: pgm, chn, on, off
49: 1,1,0,90
                        ;Pulse: pgm, chn, on, off
49: 1,1,180,270
                        ;Pulse: pgm, chn, on, off
49: 1,2,0,180
49: 1,3,45,270
                        ;Pulse: pgm, chn, on, off
```