

AC Servo System Software

SureServo Pro configuration software

SureServo Pro is an optional free downloadable configuration software package for the SureServo drives. With SureServo Pro installed, the personal computer may be directly connected to the servo drive's serial port via the PC's RS-232 serial port*. A sixfoot configuration cable (<u>SVC-PCCFG-CBL</u>, \$37.50) is available to make the connection between the drive serial port and PC DB-9 serial port simple.

*Note: Use our <u>USB-RS232</u> converter cable in conjunction with the <u>SVC-PCCFG-CBL</u> cable on PCs having only USB ports.

Features

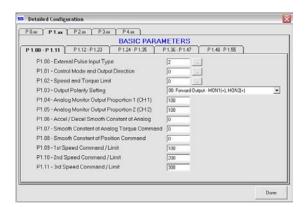
- Quick Start The basic setup when you have limited time and just want to get up and running ASAP.
- Maintenance keypad allows the user to operate the servo system from the PC. This is a great aid during start-up to allow the servo to perform some basic motion and to check the I/O.
- Detailed The complete setup for all the drive parameters
- Tune and check the servo response live using the scope feature.
- Upload and download the drive setup. Save the drive setup as a file for future use.
- · Edit the drive setup
- View all drive faults
- Trend drive variables in real time

Parameter views

The SureServo Pro configuration tool logically organizes over 165 servo drive parameters into five tabbed groups. Each parameter has a factory default that usually allows the servo to run "out-of-the-box".

The parameters can be easily changed with available options or setting ranges displayed. Tuning modes and parameters can also be changed using SureServo Pro. After the parameters have been defined, the complete setup can be stored and archived. Drive configurations can be uploaded, edited, saved, and downloaded as often as necessary.

Parameter View Example Screen - Basic Parameters





SureServo Software and Configuration Cables

Product	Price	Description
<u>SV-PRO</u>	Free	SureServo Pro configuration software for use with all SureServo servo systems. FREE download from www.sureservo.com or www.automationdirect.com websites.
SVC-PCCFG-CBL \$37.50		Six-foot RS-232 communications cable; connects servo drive serial port to PC DB-9 serial port. For PCs having only USB ports, use our USB-RS232 converter cable in conjunction with the <u>SVC-PCCFG-CBL</u> cable.
SVC-485CFG-CBL-2	\$18.50	ZIPLink SureServo amplifier configuration cable, 6-pin IEEE 1394 connector to RJ45 connector, shielded, twisted pair, 2.0 meter (6.6 ft.) length. Use this cable in conjunction with our USB-485M serial adapter to connect any SureServo amplifier to a PC. Eliminates the need to reprogram networked servo drives from RS485 to RS232 when connecting to a PC.

* Refer to the ZIPLinks Wiring Solutions section for complete information regarding ZIPLink cable SVC-485CFG-CBL-2.



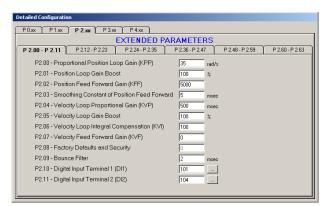
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SureServo Pro configuration software -Parameter views (continued)

Parameter View Example Screen - Monitor Parameters

P 0.00 - P 0.16	ARAMETERS
P0.00 - Software Version	2.001
P0.01 - Drive Fault Code	00: No Fault Present
P0.02 - Drive Status (Front panel display)	00: Motor Feedback Pulse Number (Abs Val)
P0.03 - Analog Monitor Outputs	0
P0.04 - Status Monitor 1	00: Motor Feedback Pulse Number
P0.05 - Status Monitor 2	00: Motor Feedback Pulse Number
P0.06 - Status Monitor 3	00: Motor Feedback Pulse Number
P0.07 - Status Monitor 4	00: Motor Feedback Pulse Number
P0.08 - Status Monitor 5	00: Motor Feedback Pulse Number
Note - The configuration values stored in P0.02 and P0.04 the entered here manually after an upload operation. P0.09 through the store of the store	rrough P0.08 in the drive can not be uploaded. They must be gigh P0.16 are only configurable from the SureServo Keypad.

Parameter View Example Screen - Extended Parameters



Parameter View Example Screen - Communication Parameters

Detailed Configuration			
P0.xx P1.xx P2.xx P3.xx P4.xx			
COMMUNICATION	PARAMETERS		
P 3.00 - P 3.07			
P3.00 - Communication Address	1		
P3.01 - Transmission Speed	02: 19200 bps		
P3.02 - Communication Protocol	08: Modbus RTU Mode (8,0,1)		
P3.03 - Communication Fault Action	00: Display Fault & Continue Operating		
P3.04 - Communication Watchdog Time Out	0		
P3.05 - Communication Selection	00: RS-232		
P3.06 - Reserved	0		
P3.07 - Communication Response Delay Time	0		
P	1		

Maintenance screen

A maintenance keypad allows the user to operate the servo system from the PC. This is a great aid during startup to allow the servo to perform some basic motion and to check the I/O.

Current Position Mode: Absolute	Position Mode		Current Accel:	200 msec		
Drive Mode: Position	(Internal Control	í.	Current Decet	200 msec		
Current Position:	-7 Revs	-5376 Pulses	Current Velocity:	0 RPM		
Digital Inputs			Digital Outputs		Analog Outputs	
1 = 01: Servo On 2 = 04: Clear Command 3 = 08: Command Tager 4 = 17: Torque Command Select 1 5 = 02: Alarm Reset 6 = 22: Reverse Inhibit (Overtrave 7 = 23: Forward Inhibit (Overtrave 8 = 21: Emergency Stop) Of	Toggle	D0 1 = 01: Servo Ready D0 2 = 03: Al Zero Speed D0 3 = 08: Al Zero Speed D0 4 = 05: Al Positoring D0 5 = 07: Active Fault Cliegt D0 Fatte Outputs Under Dirve (A0 1 - A0 2 -	100 100
Enable Drive Je	g Drive	Pos Cred	Setur			Close

Scope

SureServo Pro includes a powerful scope function that allows the user to have as many as three channels of data displayed simultaneously. Each channel has a drop-down table to select the data to be displayed. The scope also has a trigger mode and timebase selection. This function is a valuable tool for tuning SureServo drives.

