

PCL601 - Programmable Controller

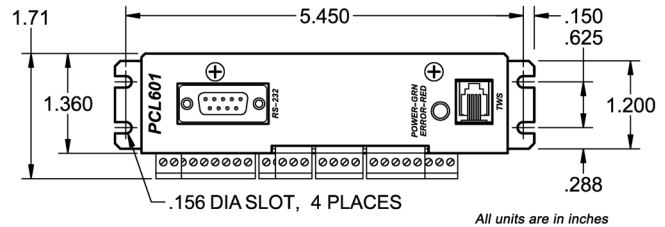
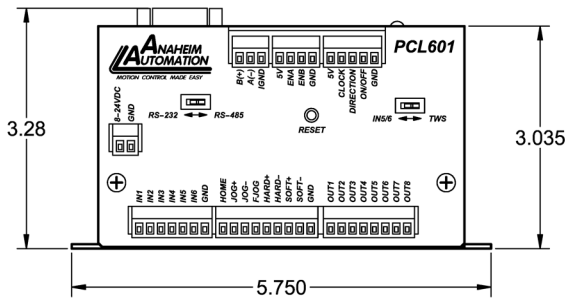


FEATURES

- **Cost-Effective Motion Control Solution**
- **Easy to Use Windows Software Included**
- **Stored Program Capabilities**
- **24V Compatible Inputs**
- **0-5V Analog Input for Speed or Distance**
- **Encoder Feedback**
- **RS232 and RS485 Compatible**
- **Multi-Drop Capabilities**
- **Compact and Rugged Construction**



DIMENSIONS



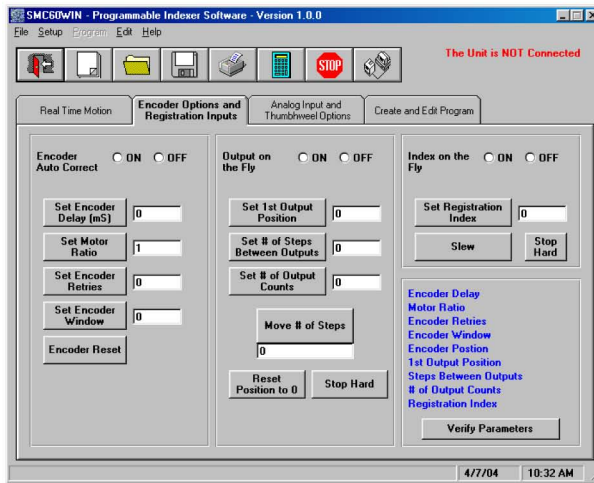
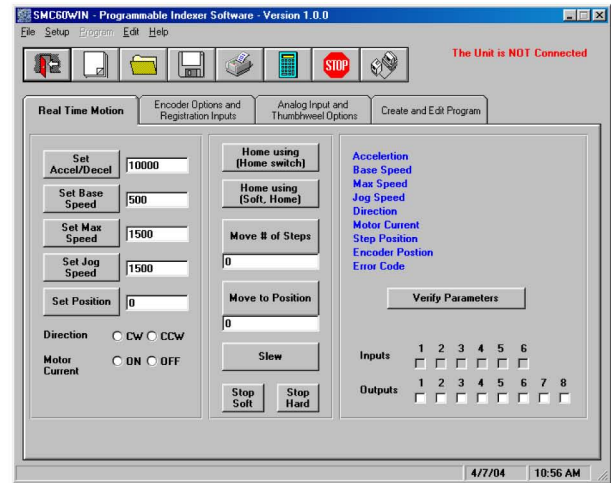
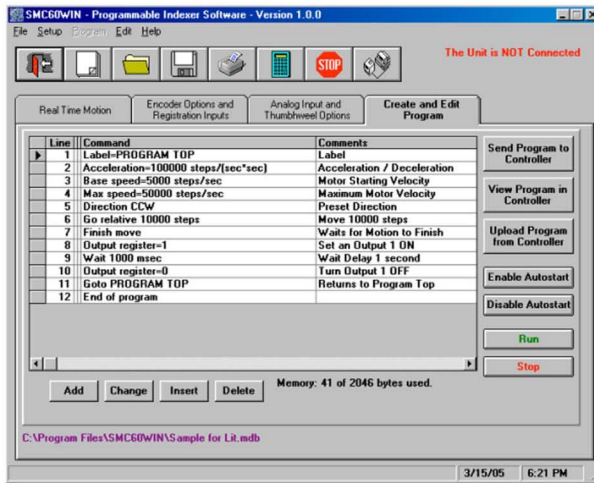
SPECIFICATIONS

PCL601 Programmable Controller provides you with a complete motion solution in a compact package. It simplifies programming tasks and provides the essential features for any positioning system. Say goodbye to PLC's and time consuming Ladder Logic Programs for good. The PCL601 features the ability to connect to a PC and instantly provide movement for a stepper motor. Whether you require a stored program, or the ability to send serial text instructions, this versatile controller.

The PCL601's programming capabilities allows you to develop motion routines, turn on develop discrete outputs, monitor inputs, and much more. The controller contains 2KB of nonvolatile stored programming space and encoder feedback. It achieves communication from a PC or any RS232/RS485 machine controller serial port. The easy to use SMC60WIN software can be used to directly control motion trajectories, velocity, multi axis communication, and much more. Programming development tasks are simplified by the software's graphical interface, giving you a great tool to achieve quick results.

Ideal Applications:

Automated Machinery or processes that involve food, cosmetic, or medical packaging, labeling, or tamper-evident requirements, cut-to-length applications, electronic assembly, robotics, factory automation, special filming and projection effects, medical diagnostics, inspection and security devices, conveyor and material handling systems, metal fabrication (CNC machinery), pump flow control, XY and rotary tables, equipment upgrades or wherever precise positioning or speed control is required.



- Power Requirements: 8-24VDC, 50/60Hz (0.5W Peak Power)
- Nonvolatile Memory: 2KB of stored programming space
- Baud Rate: 38,400 Baud, Fixed
- Data Format: Half Duplex, 1 Start bit, 8 data bits, no parity, 1 stop bit
- Communication Protocol: RS232 or RS485 selectable
- Encoder Feedback: Quadrature, CHA, CHB, 5VDC Signal Compatibility
- Controller Outputs: 8 Programmable Outputs, Open Drain Type, 40V, 100mA, +5VDC Output, 50mA
- Controller Inputs: 6 Programmable Inputs
 Logic 0: 0 - 0.8VDC
 Logic 1: 3.5 - 24VDC
 Analog Input: 0 - 5VDC
- Pulse Output Range: 1 - 50KHz, 10µs Negative Going Pulse Width

Model #	Number of Axis	Current Range (A)	Description	Input Voltage (VAC)	Power (Watt)
DPMLP601	1	1.5 - 8.0	Line Powered Microstepping Bipolar Driver with an Integrated PCL601	90 - 132	500
DPD75601	1	1.0 - 7.0	Line Powered Unipolar Driver with an Integrated PCL601	90 - 265	300
DPN10601	1	1.5 - 10.0	Line Powered Microstepping Bipolar Driver with an integrated PCL601	90 - 265	300
TWS7	-	-	Seven decade thumbwheel switch for entering distance via external interface. (Accessory)	-	-
485SD9TB	-	-	RS232 to RS485 converter for multiple axes communication. (Accessory)	-	-
AA9MFC-6	-	-	Serial port cable, required to communicate to PC. 6ft long. (Accessory)	-	-