

PCL601MOD - Programmable Controller

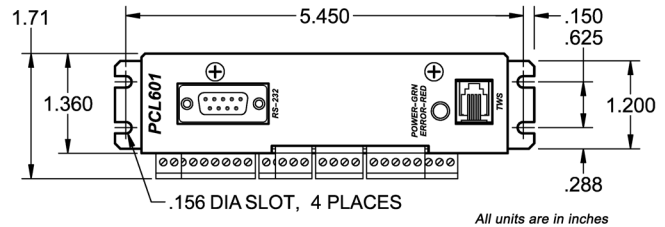
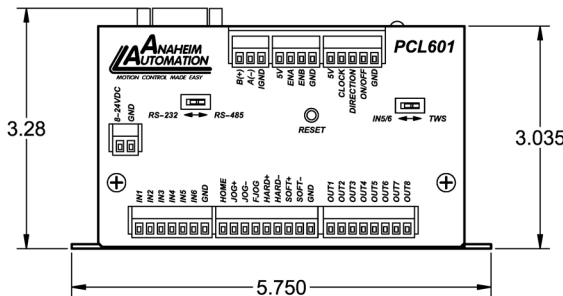


FEATURES

- **Cost-Effective Motion Control Solution**
- **Modbus RTU Slave Device**
- **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



All units are in inches

SPECIFICATIONS

The PCL601MOD is a single-axis Modbus RTU Slave Stepper Motor Controller with Encoder Feedback that can be easily integrated in a system using the Modbus RTU protocol. The device can be quickly and easily interfaced to HMIs (Human Machine Interfaces), PLCs (Programmable Logic Controllers) or any other Modbus RTU master device.

The full range of features of the PCL601MOD can be controlled and monitored at all times. Whether you require a stored program, or the ability to send real time commands to your system, this versatile controller provides the ultimate motion solution.

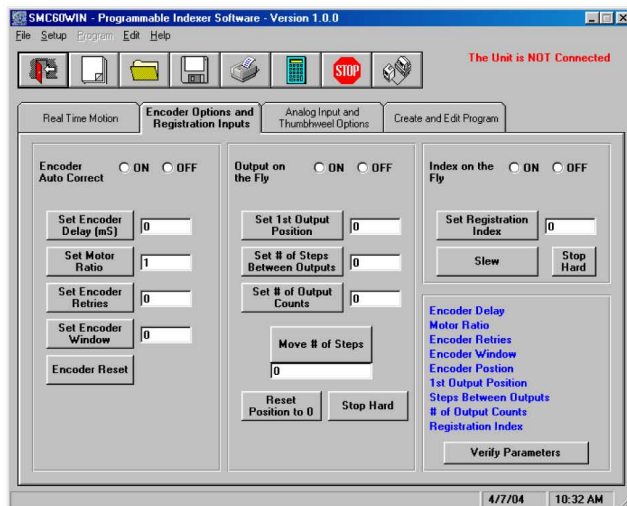
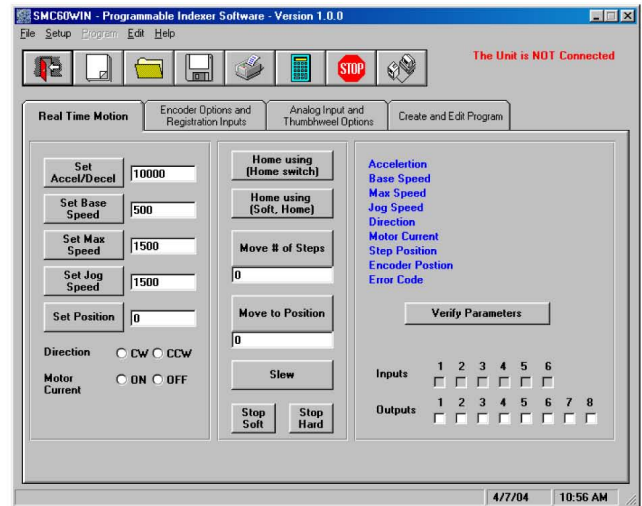
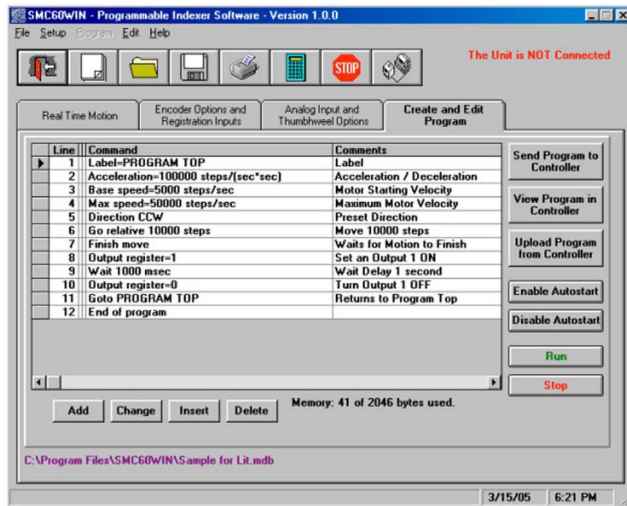
The PCL601MOD's programming capabilities allows you to develop motion routines, toggle discrete outputs, monitor inputs, and much more. The controller contains 2KB of nonvolatile stored programming space and encoder feedback. It achieves communication from a PC or any RS232/RS485 machine controller serial 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.

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Power Requirements:	8-24VDC, 50/60Hz (0.5W Peak Power)
Nonvolatile Memory:	2KB of stored programming space
Baud Rate:	38,400 Baud, Fixed
Communication Protocols:	Modbus RTU: Half-Duplex, no start bit, 8 data bits, even parity, no stop bit
AA ASCII:	Half-Duplex, 1 Start bit, 8 data bits, no parity, 1 stop bit
Serial Interface:	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 #	Description
PSAM24V2.7A	24V Power Supply for PCL601
HMI-KCO-4230T	4.3" True Color TFT LCD Human Machine Interface
HMI-KCO-4414TE	7" True Color TFT LCD Human Machine Interface with Ethernet and USB host
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)