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 HMI (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 non-volatile 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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### ADDITIONAL INFORMATION

**ADDITIONAL ORDERING INFORMATION**

- **Model #**
  - 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)

- **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