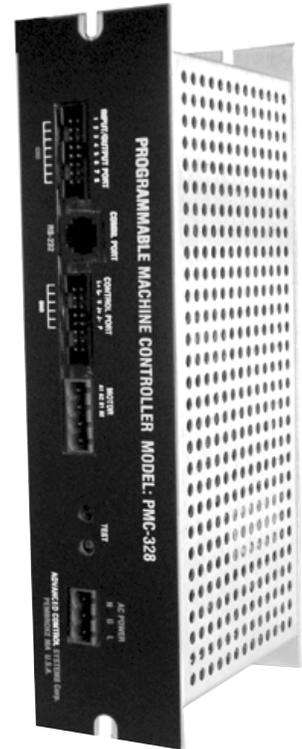




PMC-328

Programmable Machine Controller Ministeping Integrated Driver/Controller

The **Advanced Control Systems** PMC-328 Programmable Machine Controller is a simple and cost effective solution for the stand-alone control and power of any stepping motor driven machine. The PMC-328's internal non-volatile memory enables programming for autonomous operation. Control can also be achieved via a host computer using simple ASCII commands, or ACS's **ControlSmartStep** graphical programming interface. Up to 26 PMC-328s can be interconnected for multi-axis, multi-motor system integration.



PMC-328 Features

- Programmable motor winding current:
0.10 – 3.0 Amps /phase
- Internal Power Supply – 48VDC, 1.8A
- Programmable Resolution – 2,3,4,5, 6 or 8 Ministeps per full motor step
- 8 General purpose I/O lines
- 1 General purpose up/down counter
- 6 Dedicated Control Inputs – 2 Limits, 2 Jogs, Home, Program Run
- Nonvolatile 100 line memory for autonomous operation
- RS-232 serial communication rates up to 115.2k baud
- Addressable and Expandable to 26 PMC-328 Controllers
- ACS **ControlSmartStep** graphical motion application programming software

PMC-328 Specifications

Electrical

- Drive Current 0.10 – 3.0 Amps/Phase
- Input Voltage 115 or 230 Vac, 50-60Hz
- AC Power Slow Blow Fuse

Motor Requirements

- 2 Phase Bi-polar Stepping Motors, or
- 4-Phase Motors connected as 2 Phase
- 4, 6, or 8 Leads
- 0.10 – 3.0 Amp winding current
- 100% Duty Cycle

Motor Operating Mode

- Bi-Polar Chopper Drive
- Full Step or Half Step with Torque Compensation
- 3, 4, 5, 6 or 8 ministeps per full step

Environmental Requirements

- Operating Temperature -20°C to 50°C (-4°F to 140°F)
- Storage Temperature -20°C to 70°C (-4°F to 160°F)
- Humidity <95% non-condensing

Dimensions

- 2.0 x 3.8 x 8.8" (50.8 x 96.5 x 223.5mm)

Mass

- 39 oz (1.1kg)

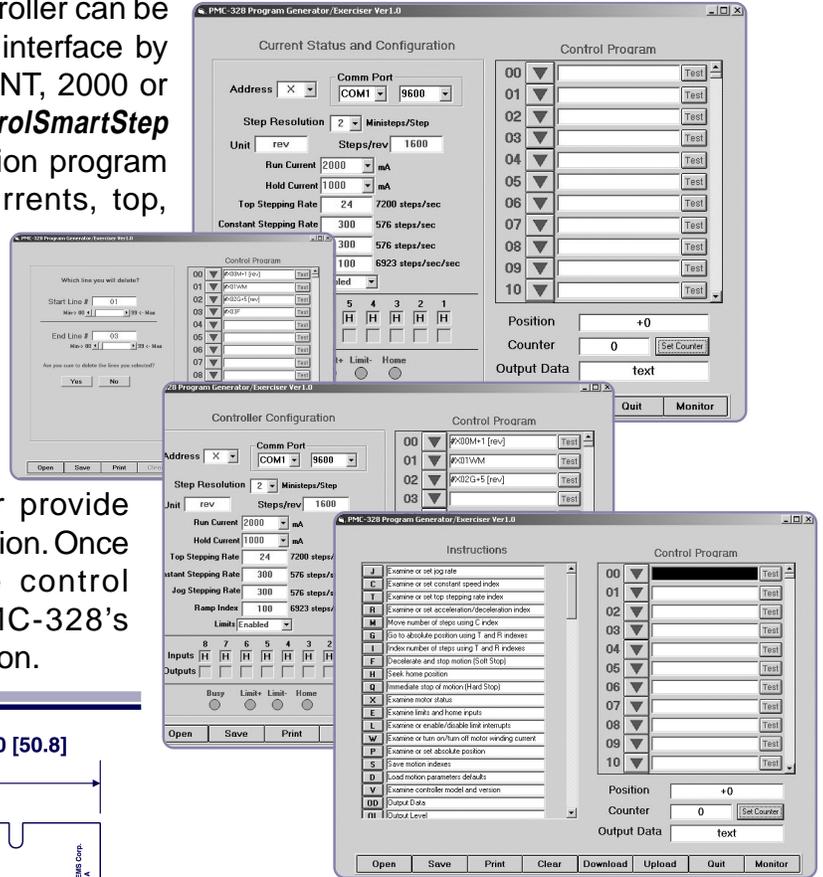


PMC-328

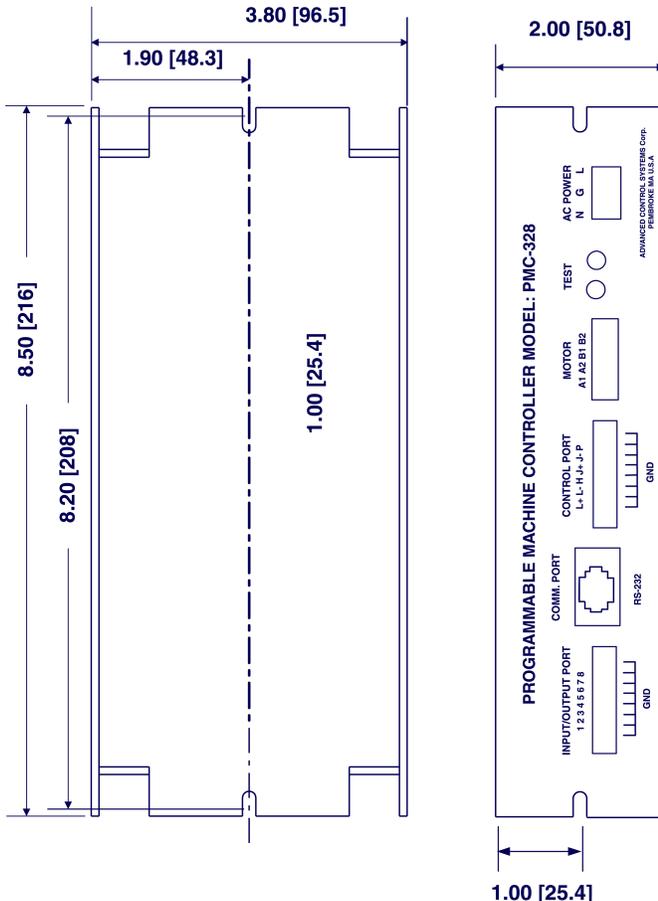
Programmable Machine Controller Ministepping Integrated Driver/Controller

ACS ControlSmartStep Programming Software

The PMC-328 Programmable Machine Controller can be programmed with ACS's intuitive graphical interface by connecting a PC running Windows 95, 98, NT, 2000 or XP to the PMC-328's RS-232 Port. **ControlSmartStep** begins the process with a visual configuration program that is used to set resolution, motor currents, top, constant and jog rates along with the ramp index and limits. The motor control program is easily constructed using the **ControlSmartStep's** series of drop down motion commands. Each command to the motor can be tested individually or run as part of the completed program. The on-screen position indicator and counter provide ready position feedback during test or operation. Once complete, up to 100 lines of machine control programming is uploaded to the PMC-328's nonvolatile memory for autonomous execution.



PMC-328 Dimensions



Advanced Control Systems Corporation designs and manufactures stepping motor drivers, integrated driver/controllers and standalone programmable machine controllers for scientific and industrial applications



Advanced Control Systems Corp.

35 Corporate Park Drive
Pembroke, MA 02359

(781)829-9228 FAX: (781)829-9875

www.ACSMotion.com