

AXIMATE

SERVO MOTION CONTROLLER

Aximate/C



High performance motion controller, providing one, two or three-axis of precise servo motion control.

- Provides up to three axes of precision servo motion control
- Easily installed and maintained
- High performance closed-loop (1ms update rate for three axis)
- Ample credit card memory interface provides for easy storage of programs, complete motion profiles or teach data.
- Accommodates an easy-to-read LCD display and keypad driver
- Flexible operation—stand-alone or through a host computer
- Supports basic Motion Programming Language
- Includes comprehensive development software for IBM PCs

Performance Benefits

Cleveland Motion Controls specializes in the design and application of high performance motion controllers. Aximate/C is the ideal controller for high performance servo motion control and is designed to meet the requirements of machine builders in packaging, materials handling and general automation.

A single compact box functions as a complete machine controller; providing motion control, opto-isolated input/output, and a user friendly message display by way of the external operator panel. The panel mount design allows easy integration into systems, saving time over rack mount controllers.

Design Features

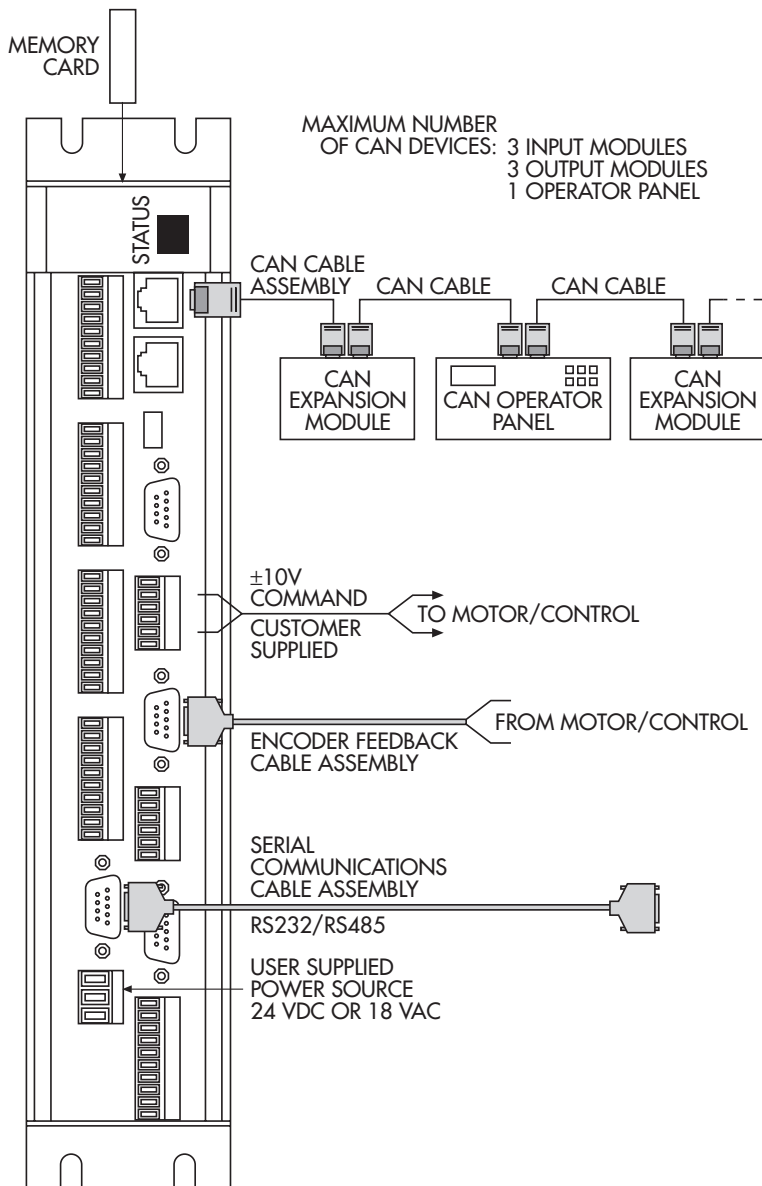
The Aximate/C Motion Controller, with opto-isolated I/O and power supply, is designed to provide one, two or three-axis of servo motion control. It incorporates numerous other built-in design features:

- End mounted unit with screw terminations for ease of commissioning.
- High performance closed-loop servo or vector control with four-term PIVF controller.
- 64K or 128K credit card memory interface for program storage, motion profiles or teach data.
- LCD display and keypad driver for up to 64 keys in 8x8 matrix using CANbus interface.
- 18VAC input or 24VDC input, on board power supply providing isolated 24V output for machine I/O and 5V stabilized output for incremental encoders.
- Stand-alone operation or controlled by host computer over RS232/485 link, up to 16 units on RS485 multi-drop link.

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PROGRAM DEVELOPMENT TOOLS

Aximate/C is supplied with comprehensive program development software for IBM PCs. This includes cTerm, a terminal emulator and protected communications debugger.

MOTION PROGRAMMING LANGUAGE

- Structured Basic-style motion control language.
- Three axis linear and two axis circular interpolation.
- Trapezoidal or 'S' ramp velocity profiles.
- Master/slave operation with software gearbox and software cams.
- In-feed, registration and phasing machine control.
- Protected multi-drop communications using ANSI x3.28 data communications protocol.
- 28K bytes non-volatile memory for programs & data.
- On board program editor.

AXIMATE/C MECHANICAL DATA

- Dimensions: 12.2" high x 2.32" wide x 11.0" deep
- Mounting configuration: End mount beside servo drive.
- Connectors: Plug in screw terminations for all signals except Encoders (9 way D-type female) and RS232 (9 way D-type male).
- Operating temperature: 0-50C; extended temperature spec available on request.

OPERATOR DISPLAY PANEL

- 20 character by a four-line back-lit LCD display.
- Shielded twisted pair cable connection to controller via CANbus, maximum cable run 1600-Ft (500 M).
- 27 keys, X, Y, Z cursor keys, numeric keypad and 6 user definable function keys.
- 19" rack compatible (3U 128mm high by 42HP 213mm wide).

DRIVES & CONTROLLERS

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