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Find the *Control Technology 2205* at our website: ***Click HERE***

Model 2205 Stepping Motor Control Module

The model 2205 Stepping Motor Control Module is an intelligent module allowing stepping motors to be easily tuned - and their performance modified - under program control. An independent microprocessor on the model 2205 handles all aspects of stepping motor control, allowing you to run multiple axes of stepping motors simultaneously without burdening the controller's main processor.

Flexible Performance Characteristics

All significant aspects of motion control, including base speed, maximum speed, acceleration rate, deceleration rate and stepping mode (i.e., full step or half step) may be modified under program control using the "profile motor" command. These parameters may be derived from thumbwheel arrays, numeric registers, or any other controller data resource; this flexibility allows:

- motor tuning in minutes, using Quickstep(tm) with its register monitoring and modification capabilities.
- operator controls based on thumbwheels, potentiometers, keypad entry, etc., or automatic adjustment based on any condition the controller can sense.
- data table storage of motion parameters, allowing sets of motion characteristics to be preprogrammed and selected based on the specific process being run that day.

Absolute and Relative Positioning

The model 2205 supports both simple "relative" turn commands (e.g., `"turn motor#1 ccw 1500 steps"`) and more powerful "absolute" turn commands, where all motions are to coordinates based on a preset zero position. This latter technique allows x-y motions, and similar functions, to be programmed quickly and easily.

On-board Drivers for Smaller Motors

For CTC stepping motors up to 100 oz-in, on-board drivers on the model 2205 may be used with the addition of the appropriate external resistor packs. For larger motors, the model 2205 supplies pulse and direction signals which may be used to control an external drive. Drives, motors and related cabling may be obtained directly from CTC, pre-engineered for plug-compatibility. In addition, the model 2205 provides six auxiliary inputs which perform such commonly-used functions as jogging (cw or ccw, slow or fast), home sensing and hard or soft limit. Indicators are provided for each of these inputs.

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