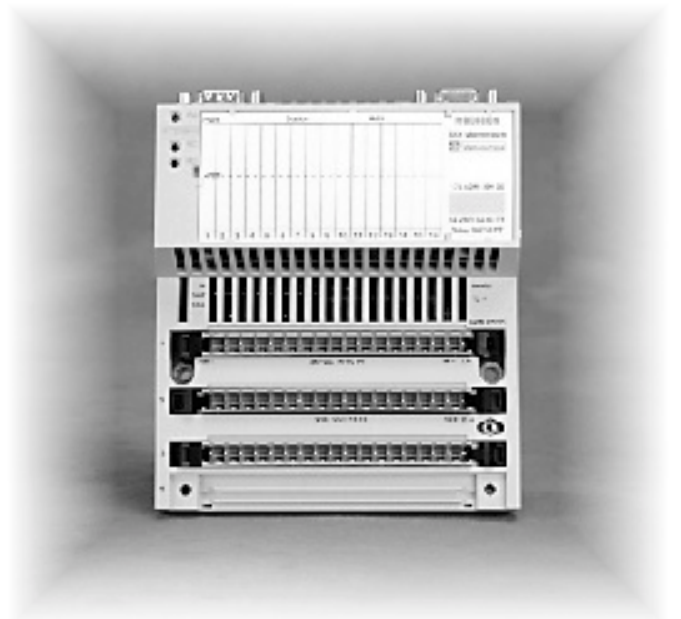


## Momentum 2-Axis Stepper Motor Control Module – SCM 220

The SCM 220 is a 2-axis stepper control module manufactured by Integrated Industrial Technologies for the Schneider (Square D) Electric Momentum series programmable controller and I/O. The SCM 220 controls two axes of stepper motors either independently or together providing point-to-point or coordinated motion profiles.

### Features & Benefits:

- Produces step and direction outputs (user units) for controlling two full-step or micro-stepping amplifiers with a resolution of 200 to 51,200 steps per revolution
- Allows the Momentum PLC or Momentum I/O controller to move the two independent stepper axes (in user units) directly from the PLC code. Perform complex move profiles without the need for high-level languages.
- Absolute and Incremental type moves are controlled from the PLC logic. The SCM 220 stores up to sixteen positions for each axis. Users can command the stepper motor to move to a stored position by simply turning on its associated bit in a PLC register.
- Includes clockwise, counter-clockwise, machine fault, and home limit inputs for each axis. Includes axis enable, direction, and step (pulse) outputs for an I<sup>2</sup>T or user supplied stepper amplifier.
- A Windows Stepper Setup program is provided to quickly setup the SCM 220. Use the software to exercise the stepper and mechanical system without writing any PLC code.
- A loadable function block for Momentum PLCs allows the user to implement homing, point-to-point move profiles, or sixteen-point move profiles without having to write logic to perform motion.
- Encoder inputs (*optional*) for each axis provide position verification of the stepper motor



- PLC Top Hat is required and must be purchased separately
- EFB Motion *Tool Kit* (optional) for Concept Version 2.5
- Provides CAM functionality

I<sup>2</sup>T also provides a range of micro-stepping amplifiers and motors ranging in size from 225 to 1284 oz-in of torque. Power supplies, cables and encoders are also available.

### Applications:

- Point-to-Point Discrete Parts Equipment
- Grinding & Tool Feed
- Positioning Equipment
- Feed-to-Length Equipment
- X-Y Contouring
- Conveyors

