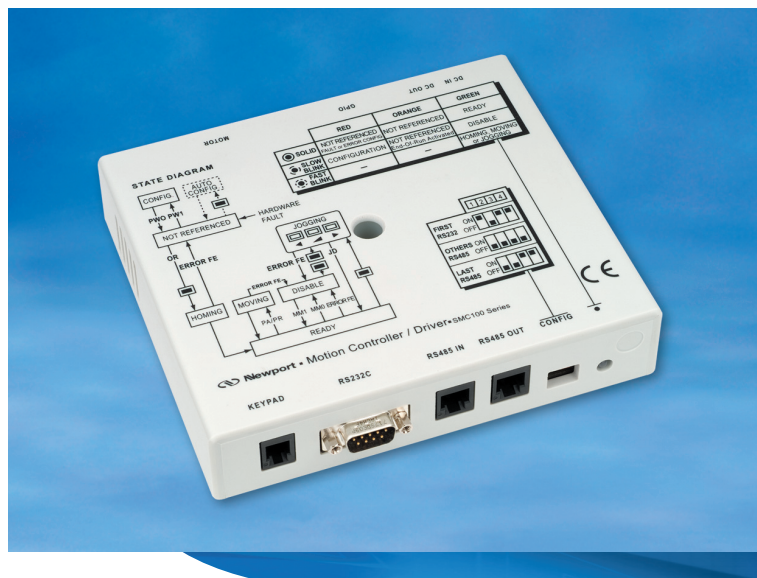


SMC100CC

Single-Axis DC Motor Controller/Driver



Key Features

- Affordable single-axis control of small DC motors (up to 48 VDC @ 1.5 A rms)
- Very compact design with central hole for mounting and stacking
- RS-232-C or USB communication for easy user interfacing
- Internal RS-485 link allows networking up to 31 controllers
- Convenient multi-axis programming
- Enhanced system safety by reading parameters from Newport ESP compatible stages

The SMC100CC is a single axis motion controller/driver for DC servo motors up to 48 VDC at 1.5 A rms. It provides a very compact and low-cost solution for driving most of Newport's DC motor stages, including the popular ILS linear stages, URS rotation stages, CMA-CCCL and LTA actuators.

Communication with the SMC100CC is achieved via the integrated RS-232-C interface, or from a USB port using the external adapter SMC-USB (requires Windows™ operating system). Intuitive, Windows-based software supports all configurations and enables basic motion. Advanced application programming is simplified by an ASCII command interface and a set of two-letter mnemonic commands.

When used with Newport ESP enhanced positioners, the SMC100CC will detect the connected product automatically for the most straightforward system configuration. This exclusive Newport feature does not only reduce configuration time, but provides also the best protection of your equipment from any accidental damages.

Up to 31 controllers can be networked through the internal RS-485 communication link. This internal multi-drop full-duplex serial link simplifies communication to several units, without the need for sending "address selection commands". This results in enhanced multi-axes management with improved program readability and faster communication compared to alternative systems based on a RS-232-C chain. The SMC100CC also features advanced "multi-axes" commands, such as "Stop all" or "Start a motion of all axes" and performs at a 57,600 baud rate communication speed.



The SMC-RC is an affordable remote control for the SMC100 controller. It features a 16-character LCD for position display and 4 push buttons for +/- jog motion, configuration, homing, motor on and motor off.



