

- Limit Switch & Motor Interlock systems
- Slew function permits high speed 'Go To'
- LED's provide status Information at a glance
- RS232 communications standard
- Selectable Speeds
- Home Position function & indicator (RS232 mode)
- Local Mode with settable scan rate
- Universal Power Input

If ordered with a system, the Model 789A-3 comes complete with a stepping motor to fit McPherson monochromators or sample handling accessories. The cabling for power, limit switches, and RS232 are included with the unit.

Local features include scanning direction, rate, and motor enable/disable. Included serial interface permits changing selectable parameters over a standard RS232 COM port. No ADC or I/O boards required.

Users interested in controlling devices via digital I/O or other means, please inquire.

If you are ordering the Model 789A-3 as a retrofit, please indicate the model number of the instrument and the grating to be used.

Complete list of ASCII commands and example programs available upon request. Software drivers available (Labview).



### MODEL 789A-3 SCAN CONTROL

The Model 789A-3 scan controller is a high-resolution stepper system used to control and drive McPherson spectrometers. Easy to operate, this high-resolution motor scanning system precisely positions gratings and selects wavelength. It operates from the controller front panel (manually) or from software (McPherson Spectrometer Control software or your own).

Specifications	
AC Input	90-240 VAC, 29 Watts
Frequency	50/60Hz
Motors Controlled	1
Motor Type	NEMA-Size 23, 2 Phase
Optional Motors	NEMA Size 17,34 2 Phase Bipolar
Motor Inductance	0.2mH TO 80mH
Resolution	36,000 Steps per revolution
Maximum Speed	60,000 Steps per second
Motor Current	4.84A Peak
Motor Drive Voltage	24VDC
Protective Circuits	Short Circuit / Under voltage / Over temperature
Front Panel Switches	Power / Motor Enable / Scan / Slew / Direction / RS232
LED Indicators	Enable, Mode, Home, Limit Status, Up-Down
Rear Panel Connectors	Motor, RS-232, Auxiliary, Power
Remote Control Input	RS232C - DB25 9600 Baud
AC Input Fuse	1A (250v) or 2A (110V)
Operating Temperatures	0 - 50C
Storage	-40C TO +85C
Dimensions	8.4" wide x 5.2" high x 4.4" deep
Weight	8.75 lbs (4Kg)