

**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 or from McPherson Spectrometer Control software.

- Limit Switch & Motor Interlock systems
- Slew function permits high speed 'Go To'
- LED's provide status Information at a glance
- RS232 communications standard, IEEE available
- Selectable Speeds
- Home Position function & indicator (RS232 mode)
- Local Mode scan rate settable from 0.1 to 99.9nm per minute (most gratings)
- LED digital display available
- Universal Power Input

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.

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, consult factory.

If not ordering the Model 789A-3 at the same time, please indicate the model number of the instrument and the grating to be used.

**SPECIFICATIONS**

Power: 90 to 240 VAC, 50/60 Hz, 29 Watts  
Motor: Stepper, 24 volts @ 3.0 amp/phase-peak  
Motor Size: NEMA-23 (others available)  
Motor Resolution: 36,000 step/rev  
(50,000 step/rev available)  
Maximum Speed: 60,000 steps/second  
Interface: RS232 Baud Rate 9600 bps

Physical Dimensions  
Width: 8.38 In (21.3 cm)  
Height: 5.22 In (13.3 cm)  
Depth: 14.38 In (36.5 cm)  
Weight 8.75 lbs (4 Kg)

Software drivers available.

Complete list of ASCII commands and example programs available upon request.