



# ADI



# QuadStep

4 Axis Motion Controller

***Controlling up to four stepping motors  
simultaneously***

**ADI**

PO Box 980 Doylestown, PA 18901  
215.489.1175 Fax 215.489.7820

**QuadStep**  
**4-AXIS MOTION CONTROLLER**  
**P/N 03-1501**

The ADI QuadStep 4 Axis Motion Controller is a general purpose, high performance motion controller designed to control and microstep up to 4 two phase stepping motors simultaneously. A Tern MC2540 DSP 4-axis motion controller and (4) Intelligent Motion Systems IM483 drives are built into the controller. In addition, 8 general purpose relays, 35 inputs and 10 outputs are available to support industrial applications and machine control.

**Main features:**



- ◆ 4-axis general purpose indexer and microstepping drives
- ◆ No minimum motor inductance
- ◆ Stall detection with 4 quadrature encoder inputs
- ◆ Fourteen (14) microstep selectable resolutions for each axis from 400 to 51,200 steps/rev.
- ◆ Programmable current drive for each axis from 1.5A to 3.0A peak
- ◆ Automatic current reduction for each axis: off, 10%, 50% or full
- ◆ Eight (8) general purpose relays for DC motor and solenoid control or system status feedback
- ◆ 35 inputs for position and limit definition
- ◆ Ten (10) outputs for feedback and control purposes
- ◆ System interlock capability for output drive shutdown when application switches or emergency stops are actuated
- ◆ Computer host and device interface through 1, RS485 and 2, RS232 communication ports
- ◆ Proprietary operating system command language interface
- ◆ Seventy-seven (77) 3 letter ASCII user commands available
- ◆ Fault detection and time stamping
- ◆ input power requirements: Two (2) 24VDC power sources for logic (2A) and isolated motor supply (6A)
- ◆ operating temperature range of – 40 to + 85 °C

**Mechanical:**

- ◆ size, 15.5" L x 11.5" W x 3.25" H
- ◆ weight, less than 10 pounds
- ◆ enclosed in a painted, tamperproof aluminum enclosure

**List price:     \$4500.00**

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