

MI SERIES 4190 POSITIONER CONTROLLERS

Key Features

- Digital closed loop position and velocity control
- One to 16 axes of total control
- Up to four axes simultaneous operation
- Axis software control of:
 - Time units
 - Position units
 - Position scale
 - Forward position limit
 - Reverse position limit
 - Position error limit
 - Velocity limit
 - Torque limit
 - Commanded position
 - Commanded velocity
 - Acceleration
 - Deceleration
 - Profile smoothing
 - Current position
 - Current velocity
 - Proportion gain
 - Derivative gain
 - Integral gain
- Optional front panel for control unit
- GPIB IEEE-488 interface standard
- Controls up to five horsepower motors
- Optional handheld local controller
- Synchro (position feedback)
- Virtual front panel (computer-based)



99022

Description

MI Technologies' Series 4190 Positioner Controllers are designed for precise speed and positioner control for up to 16 axes of positioner motion.

The MI Series 4190 Positioner Controllers offer a complete range of microprocessor-based products that provide solutions for nearly every motion control application.

Software applications for the MI Series 4190 Positioner Controllers provide users with a wide range of operation options, from simple routines entered into the functional front panel to full scale system implementations via a host computer system.

The MI Series 4190 Positioner Controllers comprise five products:

- The MI-4191 Positioner Controller, designed to drive fractional horsepower single axis positioners.
- The MI-4192 Positioner Controller, which can multiplex up to four axes

of motion and is expandable to eight axes of control for up to one horsepower-drive motors.

- The MI-4193 Positioner Controller, which provides simultaneous operation of four axes.
- The MI-4194 Positioner Controller, which provides custom configurations with up to 16 axes of control and up to four simultaneous operating axes.
- The MI-4195 Positioner Controller, which can control four axes of motion in sequential control and is expandable with the addition of power amplifiers to provide up to eight axes of control for up to five horsepower-drive motors.



1-800-854-3660

MI-4190 Positioner Controllers

Each positioner controller uses an IEEE-488 standard bus to allow control from a host computer. They also can be operated manually from the optional front panel. All controllers are compatible with MI Technologies' positioners and may be used with most third-party manufacturers' positioners.

The new MI Series 4190 Positioner Controllers feature a fully integrated programmer that allows users to develop program solutions for all motion control applications.

Power amplifier modules are available for fractional and integral horsepower requirements.

Local (hand-held) control units are also available for all configurations.

Key Specifications

Limits	Programmable: Angular: 0.0 to 359.999 degrees Linear: 0.0 to the length of device
Speed	Programmable
Direction	Programmable: Forward/Reverse Reverse
Position Accuracy	0.01 degree
Position Resolution	0.003 degree
Velocity Accuracy	0.01 degree/sec
Interfaces to Host Computer	IEEE-488, optional Serial (RS-232C) Control or Ethernet
Number of Selectable Axes	Up to sixteen
Program Entry	Host computer interface or front panel entry.

4500 River Green Parkway, Suite 200 • Duluth, GA 30096-2580
Tel: 800-854-3660 • Fax: 678-475-8391 • E-mail: Sales@mi-technologies.com

© Copyright 1999 MI-Technologies, Inc. All rights reserved. Printed in USA.
The MI Technologies logo is a trademark of MI Technologies.
All product specifications subject to change without notice.



1-800-854-3660