

MSS-856-A-000 Three Axis Stepper Controller



General

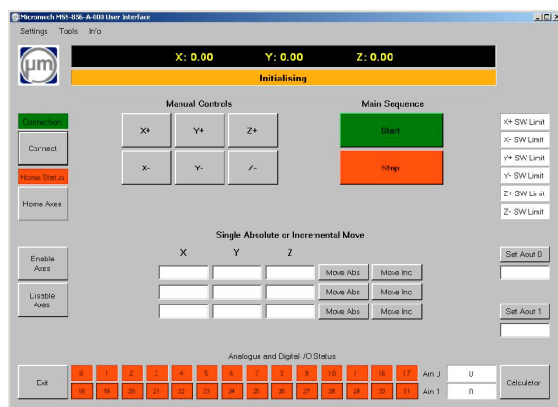
The MSS stepper controller is a user programmable 3-axis motion system designed to drive open loop 2-phase stepper motors. Ideal for XYZ systems.

With a Trio MC403 controller at its heart the system is capable of performing anything from simple point to point positioning, to complex interpolated helical or circular moves.

A number of I/O, both digital and analogue are available for connection to external devices.

The system can operate as a stand-alone unit just using the start and stop buttons. Or it can be commanded by HMI, PLC or PC using a variety of standard communication Protocols.

A PLd safety circuit is provided which will meet the safety requirements of many systems.



3 axis stepper controller features

- Compact, free standing desktop unit (562mmW x 420mmD x 211mmH).
- Powerful Trio MC403 multi-tasking motion controller.
- Pre-programmed to perform simple motion tasks such as Jogging and move Abs/Inc.
- Free programming software allowing complex motion programs to be developed.
- A simple Windows user interface is available, perfect for simple machines and systems.
- Support for HMI, PLC or PC control over Ethernet or RS232/485. Protocols include Modbus TCP/RTU, Ethernet IP, Hostlink, TCP/IP, Trio ActiveX.
- Open loop control of any 2-phase hybrid stepper motor up to NEMA42 frame.
- 1.5 to 4.0 Arms adjustable motor current.
- 70VDC motor voltage for good high speed performance.
- Up to 25000 microsteps/rev resolution for smooth motion and high positioning accuracy.
- Dedicated axis limit and home inputs.
- 12 User 24vdc digital bi-directional inputs/outputs.
- 2 User 0-10V analogue Inputs.
- 2 User +/-10V Analogue outputs.
- 2 User Relay outputs.
- PLd, SIL3 safety circuit with support for external devices.
- Supplied with kit of mating half connectors
- Powered from a 230V, 13A supply

Special versions with different motor voltages or currents can be produced.

Application specific software can be provided.