MSS-K 1 - 4 Axis Servo Controller

General

The MSS servo controller is a user programmable single or multi-axis motion system designed to drive closed loop rotary or linear servo motors. Ideal for XYZ systems.

With a Trio MC4N EtherCat 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 digital I/O is available for connection to external devices. Analogue I/O can be added as an option.

The system can operate as a stand-alone unit using just 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.

Servo controller features

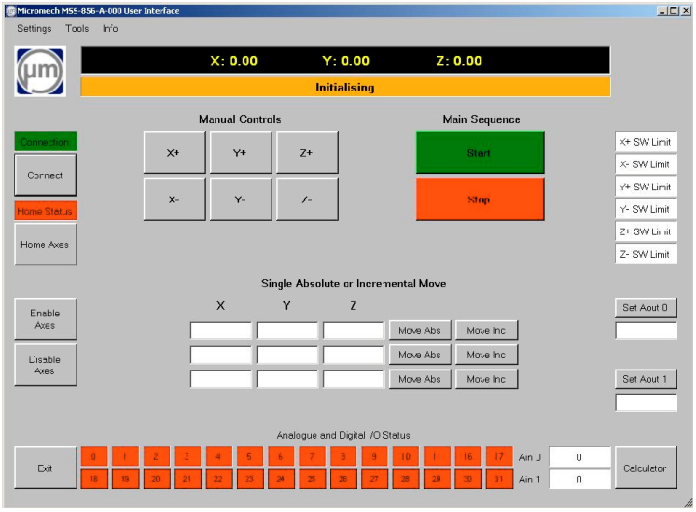
- 1 – 4 Axis of closed loop servo control
- Compact, wall mounting or floor standing painted steel industrial enclosure.
- Powerful Trio MC4N multi-tasking EtherCat motion controller.
- Pre-programmed to perform simple motion tasks such as Jogging and move Abs/Inc.
- Free programming software allowing complex motion programs to be developed.
- 7” or 10” Colour Touchscreen HMI option.
- A simple Windows user interface is available, perfect for simple XYZ 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.
- Control of high voltage brushless servo motors up to 2kW, 6 Amp motor current.
- Support for various feedback devices including resolver, incremental encoder, SFD, EnDat, Hiperface, Hiperface DSL, and BISS.
- Support for Dual or single hybrid motor cables.
- 8 Digital inputs, 24vdc.
- 22 Digital bi-directional inputs/outputs, 24vdc.
- 2 Relay outputs.
- PLd, SIL3 safety circuit with support for external safety devices.
- Powered from a 230V supply

Servo motors and cables can be supplied to suit your application requirements.

Special versions with different motor power requirements, or I/O can be produced.

Application specific software can be provided.

PC user interface software for XYZ systems.



PC User Interface includes:-

- Manual jog
- Move absolute
- Move incremental
- Start/Stop main sequence
- Home all axis
- Display system status
- Display I/O status
- Set digital and analogue I/O
- Axis setup screen

Part numbering: