

ACU-3D-24 Position Controller

ACU-3D-24 CONTROLLER: GENERAL SPECIFICATIONS

The ACU-3D-24 Position Controller features complete digital control sections for both User Interface and Position Control functions. The ACU-3D series Position Controllers have been tested and qualified for military use using MIL-STD-810E Environmental Test Methods, MIL-STD-461E Control of Electromagnetic Interference and MIL-STD-1399 Section 300A Electric Power, Alternating Current for shipboard applications.

The ACU-3D-24 Position Controller features an intuitive easy to operate, manual controls via the Front Panel interface. Additionally there is a highly refined remote control interface using Serial I/O (RS-232/422/485) or an optional Ethernet interface that provides the ability to perform any control, setup or monitoring function that is available through the Front Panel. Motion Commands are a common task for this interface but if properly equipped it is capable of controlling RF Front End switches and amplifiers.

The primary purpose of the ACU-3D-24 Controller is the accurate, controlling of motion. To achieve this purpose a very flexible, digital servo control system architecture has been utilized based around brushless servomotors with resolver motor commutation and separate absolute feedback devices to close position loops.

The control unit can be remotely located to facilitate integration with the end user's system. It can be controlled locally using front panel controls or remotely via serial Interface (RS-232, RS-422 or RS-485) using simple, well defined commands. The control unit is suitable for mounting in an equipment rack or on a table.

Standard features include point to point positioning, step interval, precision manual control via joystick control and programmable continuous sequencing moves via store and recall functions.

All modes of operation are easily selected via keys on the Front Panel. The 4 x 40 character backlit LCD display provides a clear indication of positioner status, control and user inputs. All of these functions are also available via the standard remote interface.



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