

ACU-3D CONTROLLERS: GENERAL SPECIFICATIONS

The ACU-3D Series Position Controllers feature complete digital control sections for both User Interface and Position Control functions. This 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.

These Series Position Controllers all feature 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) 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 Controllers 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 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 move via store and recall functions.

All modes of operation are easily selected via keys on the front-panel. The 4 x 40 yellow backlit LCD display provides a clear indication of positioner status, control and user input. All of these functionalities also available via provided remote interface.

NOTE: The ACU-3D-35 Controller was specifically designed to control three separate, single axis positioners. These can be located either together or apart and may be operated simultaneously or individually.

REMOTE INTERFACE: RS232/422/485

DISPLAY: 4x40 characters

POWER INPUT: 115 or 230 VAC, 50 / 60 Hz versions available.

CURRENT CONSUMPTION: 3.5 A approx.

SIZE: 19" Rack Mount, threaded fasteners for slide mounting
Optional mounting brackets for shelf or table mounting.

WEIGHT: 25-35 Lbs.

TEMPERATURE RANGE: 0° C to 40° C Operational
0° C to 60° C Non-operational



ACU-3D-12



ACU-3D-24



ACU-3D-35

AVAILABLE MODELS

MODEL	AXIS	AMP/ AXIS	HEIGHT	WEIGHT (lbs)	POWER
ACU-3D-12	1	20	2U	25	110V @ 3.5 A
ACU-3D-14	1	20	4U	25	110V @ 3.5 A
ACU-3D-14-30	1	30	4U	25	110V @ 5 A
ACU-3D-24	2	20	4U	30	110V @ 7 A
ACU-3D-24-240	2	40	4U	30	110V @ 14 A
ACU-3D-35	3	20	5U	35	110V @ 10 A
ACU-3D-12/AV	1	20	2U	20	28V