

ARP-100 GENERAL SPECIFICATIONS

The ARP-100 system consists of the Azimuth Positioner (APS), Position Control Unit (ACU-3D-14) and cables required for power and control of the positioner.

The load capacity of the system is 150 lbs with a 20g vertical shock rating on the large mounting bracket.

The positioner is suitable for mounting on a flat, horizontal¹ mounting surface and provides up to +/-100° of motion in the azimuth axis. It is designed for reliable operation in outdoor, marine environments, and is Mil-STD-810E qualified for shipboard use.

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. The PCD is Mil-STD-810E qualified for indoor, shipboard operation.

The system has also been tested for electromagnetic compatibility per MIL-STD-461E, Category A4, Part 5 for surface ships, and MIL-STD-1399, section 300 (compatibility with power systems available on surface ships)

RANGE of MOTION

Azimuth: $\pm 100^\circ$

POSITIONING ACCURACY

Azimuth: $\pm 0.2^\circ$

CONTINUOUS TORQUE

Azimuth: 3600 in lbs (300 ft lbs)

VELOCITY:

Azimuth: 1 - 40 deg/sec

ACCELERATION:

Azimuth: 4 - 50 deg/sec²

POWER INPUT:

Controller 120/60Hz

WEIGHT:

Positioner: 135 lbs (61kg)

Controller: 35 lbs (16kg)

POSITIONER:

Operational

Temperature: 21°-131°F
(-6° to 55°C)

Relative Humidity: 0 to 100%



ARP-100 Positioner



ACU-3D-14

¹ The APU is capable of operating within +/- 45° of level (horizontal) based on testing per MIL-STD-16400G