

EAP-600

The EAP-600 consists of the Elevation-over-Azimuth Positioner (EAP), controller (ACU-3D-24) and cables required for power and control of the positioner.

The positioner is suitable for installations requiring up to a 4.3 meter antenna, weighing up to 1000 lbs that must fit inside an 18 foot radome. The entire configuration of the EAP-600 has been designed to facilitate this type of application. The elevation is a yoke configuration that allows mounting the antenna as close to the center of rotation as possible. The azimuth structure is configured to allow continuous azimuth motion with the installation of optional slip rings and rotary joints along with a 6.00 inch diameter hole for the waveguide path to the elevation mechanism.

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) using simple, well defined commands. The control unit is suitable for mounting in an equipment rack or on a table. The controller is designed to meet MIL-STD-810E for indoor operation and units in this series have passed MIL-STD-461C/E for EMI/RFI as well as MIL-STD-1399 for shipboard and ground based applications.

RANGE of MOTION

Azimuth: +/- 200°
Elevation: -5° to 185°

POSITIONING ACCURACY

Azimuth: ±0.1°
Elevation: ±0.1°

CONTINUOUS TORQUE

Azimuth: 16,000 in lbs (1,300 ft lbs)
Elevation: 88,000 in lbs (7,300 ft lbs)

VELOCITY:

Azimuth: 0.5 - 36 deg/sec
Elevation: 0.2 - 6 deg/sec

ACCELERATION:

Azimuth: 3 deg/sec²
Elevation: 3 deg/sec²

POWER INPUT:

Controller 120VAC/60Hz or
220VAC/50Hz

WEIGHT:

Positioner: 1040 lbs (318 kg)
Controller: 45 lbs (23 kg)

POSITIONER:

Operational
Temperature: 0°-131°F (-20° to 55°C)
Relative Humidity: 0 -100%



EAP-600 EI / Az Positioner



ACU-3D-24 Position Controller

