RC4500 AIU-7
RC4500 Antenna Controller with Integrated Antenna Interface Unit

Take advantage of RC1’s vast experience with embedded antenna controllers, cost savings and simplified installation when using the AIU-7 variable speed outdoor antenna controller with integrated RC4500 ACU.

FEATURES

- **16-Bit Resolver Position Sensors**
  0.005 deg resolution, 3.5 minute accuracy
  Optional potentiometer for polarization position sense

- **Inclined Orbit Tracking**
  Step Track / Memory Track / NORAD Two Line Element (TLE)

- **Integrated Beacon Receiver**
  An ASC Beacon Receiver allows for a low-cost, all-in-one inclined orbit tracking solution

- **Optional DISA Compliant Beacon Receiver**
  A low threshold of 43dBHz, fast re-acquisition of less than 1 second and high linearity, manufactured by Novella Satcoms Ltd.
  Supports modulated beacons

- **Ethernet Interface**
  Supports web-browser based Remote Front Panel & UDP encapsulation of serial M&C commands

- **Optical Interface**
  Support for Single-Mode Fiber communication, requires the Ethernet Interface option

- **Optional Spectrum Analyzer**
  May be used in Spectrum Analyzer mode or optionally in Beacon Receiver mode

- **Non-volatile Memory**
  Stores 50 satellites in non-volatile memory, all of which may be inclined orbit

- **Variable Speed for AZ/EL Motors**
  1/2HP to 5HP Variable Frequency Drives, customized for each antenna
  Solid-State Drive Circuitry allows configurable motor dynamics, continuous over-current monitor

- **Local Jog Control & Status Monitoring**
  Allows antenna positioning without the use of the RC 4500 ACU for antenna maintenance
  LED indicators show limit and drive alarm status

**AIU Specifications**
- Size: 36”H x 30”W x 10”D (without floor mount kit)
- Weight: 100 lbs typical
- Operating Temperature: -20ºC to +40ºC
- Input Power: 208 to 480VAC 3-phase, 50/60 Hz, 20-amp service typical (varies based upon user requirements)

SatelliteDish.com  954-941-8883
RC4500 AIU-7

RC4500 Antenna Controller with Integrated Antenna Interface Unit

Local Jog Control
Allows antenna positioning directly at the antenna via swing panel-mounted switches

Limit Status at Pad
LED indicators show when a limit is reached

AZ/EL Drive Status at Pad
LED indicators on jog panel reveal drive status

Fast Acting Emergency Stop
Clearly labeled, externally mounted Emergency Stop Switch has press to STOP, twist to reset operation

NEMA-4 Enclosure
May be wall-mounted or mounted directly to the Antenna Pad using the Floor Mount Kit

Variable Speed for AZ/EL Motors
Independent Variable Frequency Motor Drives for 1/2HP to 5HP AZ and EL motors allow user-adjustable speed control, customized for each antenna

Solid-State Drive Circuitry
Configurable motor dynamics, Continuous Over-Current Monitor

Customized Polarization Drive
Single Speed Polarization Control for DC, Single-phase or Three-phase Polarization motors

Supports Electromechanical Brakes
Optionally support for AZ and EL motor brake control

Flexible
AIU7 may be configured for a wide variety of Antenna Systems, both for new antennas and retrofits of older systems

AIU Specifications
Size: 36”H x 30”W x 10”D (without floor mount kit)
Weight: 100 lbs typical
Operating Temperature: -20°C to +40°C
Input Power: 208 to 480VAC 3-phase, 50/60 Hz, 20-amp service typical (varies based upon user requirements)