

RC4500 AIU-7

RC4500 Antenna Controller with Integrated Antenna Interface Unit



Take advantage of RCI'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
 RC4500 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: -20°C to +40°C

Input Power: 208 to 480VAC 3-phase, 50/60 Hz, 20-amp service typical (varies based upon user requirements)

Research Concepts, Inc.

9501 Dice Lane Lenexa, Kansas 66215 USA Phone: 913.422.0210 Fax: 913.422.0211

E-mail: sales@researchconcepts.com

www.researchconcepts.com



RC4500 Antenna Controller with Integrated Antenna Interface Unit



Take advantage of RCI'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

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 useradjustable 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, Singlephase or Three-phase Polarization motors

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

AlU7 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)

Research Concepts, Inc.

9501 Dice Lane Lenexa, Kansas 66215 USA Phone: 913.422.0210 Fax: 913.422.0211

E-mail: sales@researchconcepts.com

www.researchconcepts.com