



RC4500

Satellite Earth Station Antenna Control Unit



FEATURES

- **16-Bit Resolver Position Sensors**
0.005 deg resolution, 3.5 minute accuracy
Optional potentiometer for polarization position sense.
- **Open-Collector Drive Cabinet Interface**
Simple and easy to maintain
- **Direct DC Drive Option**
Interfaces direct to 24V DC motors, 10 amp max
- **Non-volatile Memory**
Stores 20 to 100 satellites in non-volatile memory, 10 of which can be inclined orbit
- **Optional Inclined Orbit Step-Tracking**
Via step track / memory track tables
- **Optional Support for NORAD TLE**
NORAD Two Line Element tracking for inclined orbit satellites
- **Multi-Band Operation**
Supports C, Ku, L, Ka and X-band satellites
- **RS-422 or RS-232 Monitor & Control Interface**
Remote control from many popular PC software packages
- **Optional Ethernet Interface**
Support browser based Remote Front Panel & UDP encapsulation of serial M&C commands
- **Optional Optical Interface**
Support for Single-Mode Fiber Communication, requires the Ethernet Interface option
- **Optional DISA compliant Beacon Receiver**
A low threshold of 43dBHz, fast re-acquisition of less than 1s and high linearity, manufactured by Novella Satcoms Ltd.
Supports modulated beacons

Research Concepts, Inc.

SPECIFICATIONS



Flexibility of the RC4000

The RC4500 architecture consists of stackable cards allowing for flexible and compact ACU packaging that may include:

2U Rack Enclosure

Size: 19.0" x 3.5" x 17" (W x H x D)
2U Rack Enclosure, 17" Deep
Weight: 12 lbs
Temperature: 0° to 50° C Operating
Input Power: 85-265 VAC, 50/60 Hz,
72 Watts
Display: 4 x 40 Character LCD

Embedded Enclosure

Weatherproof enclosure that may be installed directly in an Antenna Interface Unit

Size: 30" x 36" x 10" (W x H x D)
NEMA4 Enclosure
Weight: 125 lbs Typical
Temperature: -20° to +40°C Operating
Input Power: 208 VAC 3-phase, 50/60 Hz,
20 Amp Service typical



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