

AZIM: 113.93 ELEV: 10.17	RF: 508	MANUAL	Mode	CCW		CW
POL: 44.99 <mode>MENU &lt;0-1</mode>	SPD:FAST 9>JOG ANTENNA	UTC 19:18:41	Scroll	4 E Az	5 HV	6 W
Research Cor	ncepts, Inc.		Scroll	7 Sat-H	8 EI	9 Sat-V
9		enna Controller	Enter	Stop	0 Speed	+/- BKSP

### Servo Antenna Control Unit for Mobile and Deployable Satellite Antenna Systems

Building on the long history of RCI antenna controllers, the RC4600 combines the familiarity and ease of use of all RCI controller with the extreme performance of servo-based position holding. The RC4600 is available in a 2RU rackmount configuration or a made to order IP67 rated outdoor enclosure to meet all mobile, transportable, and fly-away antenna needs.

### **FEATURES**

- High Rate Position Correction 64 Hz on axis position servo eliminates pointing errors on two (or three) axes 64 times a second.
- High-Resolution AZ/EL Position Sensors
  16-bit on axis resolvers (.0055° resolution)
  25-bit on axis encoders optional (.00001° resolution)
- DISA/DSCS Compliant Tracking Step Track/Memory Track NORAD Two Line Element Track (TLE) Enhanced Smart Predictive Track (ESP)
- Highly Adaptive Servo Functionality DC/BLDC/Stepper/AC Motors 12 limit switch inputs available Tach or encoder velocity feedback
- Market Leading Safety Continuous current monitor, position monitoring and system fault monitoring ensure personnel and antenna safety

- Integrated Tracking Receiver Novella B38 AVCOMM SBS2 ASC 350L
- Instant On, Application Specific Software Ready to use in less than 20 seconds makes satellite acquisition fast No special PC software needed
- Optional Integrated Spectrum Analyzer Remotely monitor RF spectrum and antenna status in a single interface
- Optional Handheld Remote Ideal for antenna maintenance
- Ethernet Interface

Simple graphical user interface via web browser Full M&C protocol via IP SNMP v3 monitoring

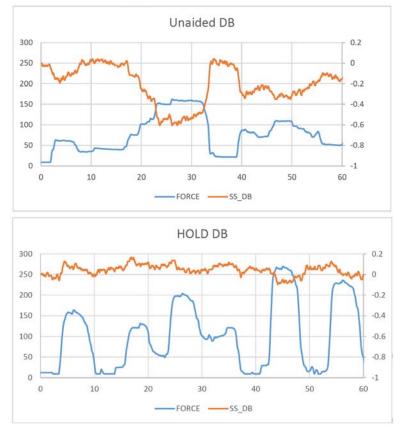
# Research Concepts, Inc.

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## www.researchconcepts.com



### RC4600 Demonstrated Performance



Measured performance using a Ku-Band antenna monitoring Satellite Beacon Signal Strength (Right-Scale in dB). The Antenna was pulled with a varying amount of force (Left-Scale, Ibs.).

#### **ACU Specifications**

- 2 RU Rack-Mount Chassis Classic RCI 4x40 LCD and 4x4 keypad Industry standard antenna interface
- IP67 Sealed Outdoor Enclosure Custom designed antenna integration

- Wide Input Power Range 85-265 VAC single-phase 50/60Hz; 1kW Driving; <25W standby; Optional DC powered available.
- Wide Temperature Range -40C to +65C for embedded -20C to +65C for rackmount

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