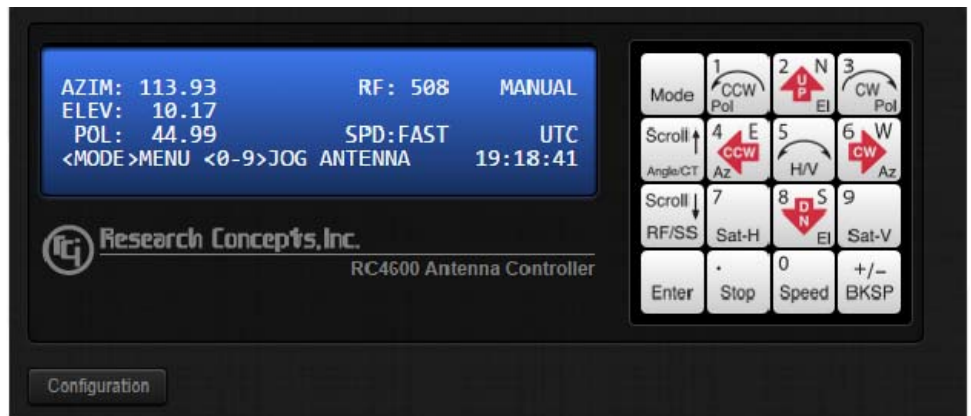




RC4600



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

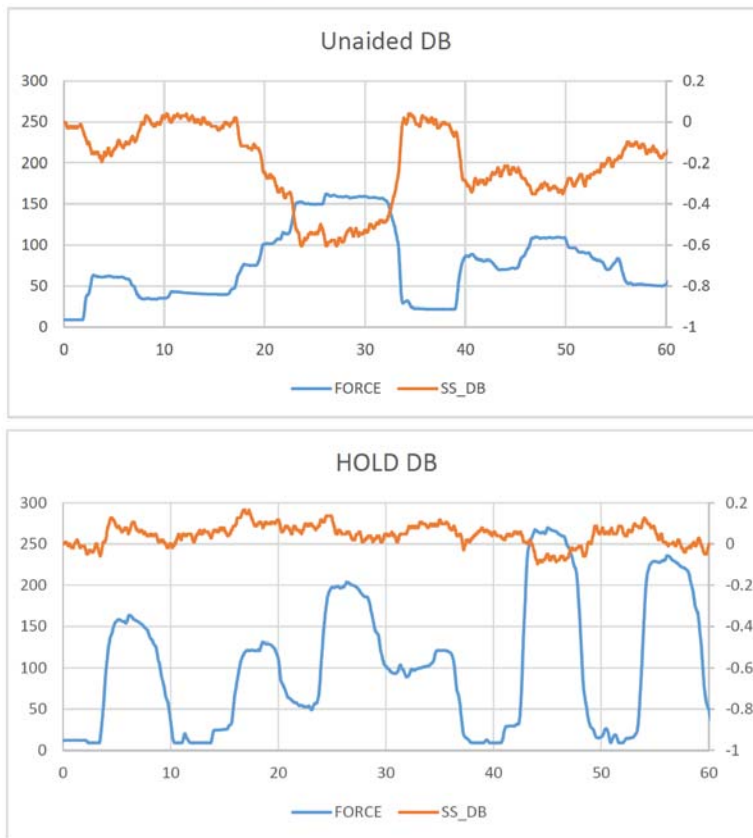
Research Concepts, Inc.

Request A Quote



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, lbs.) .

ACU Specifications

- **2 RU Rack-Mount Chassis**
Classic RCI 4x40 LCD and 4x4 keypad
Industry standard antenna interface
- **Wide Input Power Range**
85-265 VAC single-phase 50/60Hz; 1kW Driving; <25W standby; Optional DC powered available.
- **IP67 Sealed Outdoor Enclosure**
Custom designed antenna integration
- **Wide Temperature Range**
-40C to +65C for embedded
-20C to +65C for rackmount

[Request A Quote](#)