

AC2000 antenna Control system(AC Control System)

AC2000-ACU



AC2000-ADU



General Description:

The Probecom Model AC2000 Antenna Control Unit enables satellite earth station antennas to accurately track geostationary and Inclined orbit satellites up to 10 degree. AC2000 antenna control system is based on windows operation system and IPC structure.

The system has high reliability, and maximum flexible system configuration. Easy operation and human interface.

This system using dual channel brushless Resolver to ensure the drive and tracking accuracy.

The system is remotely controllable over Ethernet via TCP/IP or various serial ports (, RS-232, RS-485.)

Highlight:

- ◆ windows Operation
- ◆ IPC structure
- ◆ Two speed driver(high for slew ,Low for tracking)
- ◆ TFT LCD display
- ◆ Keypad and Mouse control
- ◆ dual channel brushless Resolver
- ◆ 50 Satellite Positions Preset
- ◆ Three Axis Control for Az and El .Polarization as a option.
- ◆ Big screen display of alarm, antenna position and fault indication.
- ◆ Software and hardware travel limit switches ensure the safety operation.
- ◆ Remote control over Ethernet or Various serial port
- ◆ Easy upgrade the software
- ◆ high scalability for ACU and ADU

<p>Modes of Operation</p> <ul style="list-style-type: none"> ◆ STANDBY ◆ MANUAL ◆ STEPTRACK ◆ ORBIT PREDICTION <p>TRACKING (OPT)</p> <ul style="list-style-type: none"> ◆ COMMAND ◆ PROGRAM ◆ SCAN ◆ STAR TRACKING 	<p>Tracking Accuracy</p> <p>Better than 10% receive 3dB beamwidth RMS in Step Tracking Nominally 5% receive 3dB beamwidth RMS with OPT Tracking Position display resolution: 0.001°</p>	
<p>Electrical</p> <p>ACU: 100-240 VAC,47-63 Hz 100 W typical ADU: Motor Size: 1-5 HP standard Larger sizes available</p>	<p>Controls / Interfaces</p> <p>Front panel Local control Remote: Ethernet, TCP/IP Serial: RS-485, RS-232 Receiver Interface: 0-10 VDC ADU: Standard Drive Interface Alarm: Summary output</p>	<p>Environmental</p> <p>Temperature: 0 to 50° C Humidity: 95% non-condensing</p>
<p>Mechanical</p> <p>ACU: Height: 5 Rack Units Width: 19" Depth: 19"</p>		<p>ADU: Height: 1000mm Width: 700mm Depth: 300mm</p>