



# CYTROL 5000

## ANTENNA POSITIONER CONTROLLER

### FEATURES

- Point and shoot preset
- Menu driven operation
- 64V, 5A, 2 $\Phi$  drive for 20,000 in/lbs positioners
- Adjustable limits for side mount and AZ/EL apps.
- 0.1° accuracy for EME or satellite tracking
- Programmable speed, acceleration
- Soft limits (programmable)
- Rate of rate acceleration / deceleration
- Serial interface - RS232
- Slaved tracking of multiple positioners

### DESCRIPTION

The **CYTROL** desk top controller drives a wide range of **CYTORG** positioners using high torque stepper motors. The unit offers torque and accuracy unavailable with existing antenna rotating systems.

Operational control is by convenient front panel controls and displays as well as an external computer interface.



A pluggable Euro style cable connector allows quick disconnect of positioner in case of lightning.

A 9-pin RS232 communication port is standard. A blank mounting plate allows addition of USB, RS485 and Ethernet "smart" connectors



An internal microprocessor controls and supervises all movements. Software allows coordinated operations of multiple positioners such as EME or multi positioner stacked arrays.

A massive (250VA) custom transformer and computer grade power components provide the drive capability for the most demanding applications.

Proprietary eight phase micro-step High **Z** drive technology allows extended cable runs with minimum RFI. All external signal lines are short circuit protected.

With our planetary positioners, deceleration energy is transferred to a load ballast for dynamic braking. A temperature controlled fan assures cool operation.

The unit is built in a custom steel cabinet designed for appearance and strength. Powder coat paint and industrial components provide ruggedness in the most demanding environments.





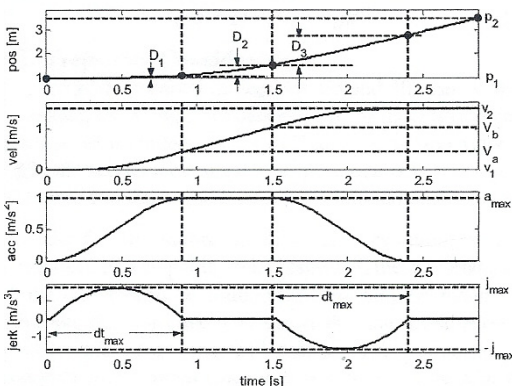
## OPERATION

Operation is simple and intuitive. Everything you need to know about the current operation is always shown on the display along with instructions on the next available operating option.

Only a button and a knob are required to get the full range of setup and control options available.

Important operating parameters are always available by a single level menu. All are programmable in precise digital increments. A flexible serial interface provides remote operation.

The positioner accelerates, slews, decelerates and stops at the exact location specified - without overshoot!



A significant improvement over standard rotator control systems is **CYTORQ**'s motion control software. "Rate of rate" acceleration algorithms (jerk-bounded movement) reduce stress on gears, tower, and antenna arrays resulting in increased reliability and less service.

## SPECIFICATIONS

Operational	
Azimuth setpoint °	1 or 0.1 increments
Rotation speed sec	Depends on positioner in range of 30 to 120
Accel/decel °	15 or 30
Limits °	60 to 360 in 0.1 increments
Position step °	<0.01 or better
Electrical	
Cable distance ft	500 - 18 Awg
Power	120/240 VAC 50/60 Hz. 3 amps at 120 VAC
Serial interface	RS232 - others optional
Environmental	
Operating temp °C	0 to +50
Humidity %	0 to 100 - non condensing
Altitude feet	- 200 to 10,000
Physical	
Construction	Steel desktop cabinet with powder coat paint
Size inches	4"H X 8"W X 11"D
Weight lbs	13

Specifications subject to change without notice or obligation.

## ORDERING INFORMATION

Pricing - prices shown in US dollars (\$)

**CYTRON 5000**                      \$599.00

**MADE** in the USA by **ULTRALINK**, Inc.

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