The microprocessor-based Model 9145 Antenna Controller automates the process of positioning a polar-mount antenna for a range of satellites. The Model 9145 Antenna Controller is compatible with the Model 9037 3.7 meter Polar Mount Antenna or other similarly designed antennas.

FEATURES
• Automatic positioning allows precise alignment of the satellite antenna from front panel push-button programming
• Microprocessor-based system simplifies user interface and enhances overall performance
• High-resolution sensor processing ensures accurate positioning
• Automatic or manual polarization control
• Dual speed capability provides user-selectable control for fast relocation and fine tuning antenna position
• Non-volatile memory stores up to 50 preset position and polarization combinations
• Soft-key command entry guided by 32-character LCD display
• Software-controlled limits provide backup for mechanical limits
• Manufactured in the U.S.A.
Model 9145 Antenna Controller

DESCRIPTION
The Model 9145 Antenna Controller is used in CATV systems for hotel, school, hospital, and flexible SMATV special-event feeds, as well as network affiliate secondary downlink control.

The controller automatically positions the Model 9037 Polar Mount Antenna with optional motorized positioner to view any point in the satellite arc of 59° to 144°. The antenna actuator and controller can be located up to 1000 ft apart. The automatic mode moves the antenna to any of its 50 pre-programmed positions which are stored in nonvolatile memory. The user can program the slow and fast speed indexes to match the antenna drive to the antenna load for optimum C- and Ku-band pointing performance.

The microprocessor-based unit simplifies user interface and improves overall performance. The controller eliminates the need to manually move the antenna to receive programming from a different satellite. Once the headend operator programs the position for each satellite, the antenna controller will return to that position with precision every time.

The rack-mounted controller offers a range of unique features, including dual-speed control, motion-detect software to guard against sensor errors. The user-friendly interface features a 2 x 16 character back-lit liquid crystal display. The display menus guide the operator through normal operational changes as well as initial program setup. The Model 9145 Antenna Controller provides an output for automatic or manual control of various manufactures of stereo-controlled feeds.

SPECIFICATIONS

Model 9145 Antenna Controller
Power requirements
Voltage
115 V AC, 60 Hz
Power
48 W
DC power output
36 V DC, 8 amperes max
Position-sensing method
Hall effect, 300 pulses per inch
Power fusing
Control: 0.5 A, 125 V
Motor: 3.0 A, 125 V slow blow
Mechanical
Chassis dimensions
19 in. W x 3.5 in. H x 9.0 in. D
(296 mm W x 85 mm H x 250 mm D)
Weight
12.5 lbs (5.5 kg) net

Motorized Actuator*
Motor voltage
36 V DC

Motor current
4.5 amperes at 1000 lb load
Feedback system
Hall effect sensor
Compatible with 5 V to 15 V DC logic levels
Operates at 300 closures per inch or once per 0.0056-inch of travel
Mechanical
Actuator type
Motor-driven Acme screw linear
Stroke length
24 in. nominal
Over-travel protection
Built-in mechanically operated motor limit switches for fully extended or retracted actuator positions
Dynamic thrust
1500 lbs
Backlash
0.020 in. max
Extension tube
Chrome-plated steel, completely weather-sealed

* Motorized polar mount

Specifications and product availability are subject to change without notice.