

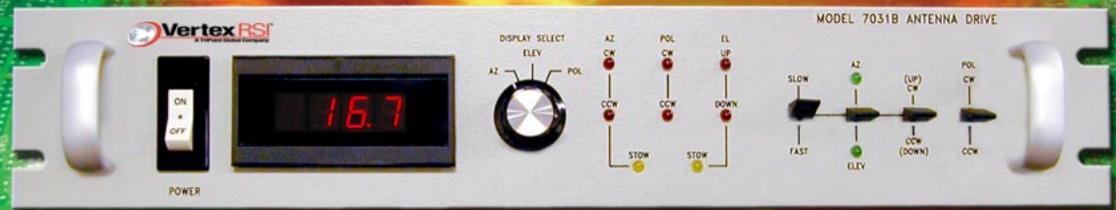
MODEL

7031B

ANTENNA

JOG

CONTROLLER



VertexRSI developed the 7031B Antenna Jog Controller for applications requiring simple but reliable manual operation for mobile antenna applications. The 7031B controller is designed to be used with the VertexRSI 1.2, 1.5, 1.8, and 2.4 meter mobile antenna products and can be adapted to antenna products from other suppliers as well.

The 7031B Jog Panel allows arbitrary adjustment of azimuth, elevation, and polarization angles, with the advantage of a singular position display. The axis to be displayed is chosen with a selector switch labeled AZ, ELEV, and POL, for azimuth, elevation, and pol respectively.

The controller's display operates with a resolution of 0.1 degrees. The range for each axis is defined by the mechanical limits of the associated axis, limit switches or sensors, and stow limit switches.

## Key Features

- Selectable AZ/EL/POL real-time control and position display
- Field-proven in numerous SNG applications
- Stow interlock handling to facilitate safe and efficient stow/unstow operation
- Customer interface connections available for AZ and EL remote control

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### Control Mode

Two speed AZ and EL positioning
Single speed POL positioning for 3-axis system
Fast to slow drive rates up to 15:1

### Customer Remote Interface

Elevation Stow Interlock
Axis Select AZ
Axis Select EL
Drive Direction CCW/Down
Drive Direction CW/UP

### Position Encoding

Display resolution 0.1 degrees
Position location using potentiometers
Travel and stow limits using limit switches

### Specifications

AZ and EL axis driven by direct current (DC) motors Voltage is selectable for 12, 24, 36, 48, and 90 VDC (Individual axis-selectable motor voltages)
POL axis driven by 12 VDC motor

### Physical Data

Dimensions (in.)	3.5H 19W 22D (2 EIA Rack Units)
Input Voltage	120 VAC single phase Transformer supplied for 220-240 V operation
Operating Temperature Range	0-50°C
Humidity	90%, Noncondensing



Each axis is driven by direct current (DC) motors. The elevation and azimuth motors are controlled by shared SCR DC speed control circuitry. Fast and slow

speed drive rates can be adjusted for up to a 15 to 1 ratio, with fast drive up to 2 degrees per second. Single speed polarization control is provided.



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