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

(903) 295-1480
### Controls

#### Products

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### Dimensions

- **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

### 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**

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.