SVS SATELLITE SYSTEMS

AKS250

Advanced Antenna Controller

- Eutelsat certified auto-pointing
- 3-Axis movement
- Built-in DVB-S/S2 tuner
- Find satellite automatically
- Store satellite for quick re-finding
- Define your limits
- Control via computer
- Easy to use, and secure with admin, and user access levels
- Locking into DVB-S/S2 carriers and listing service names
- Spectrum viewer (with software licence option)
- Automatic or manuel De-ice System controlling (if de-icing available)
- RF output activation after peaking completes

- AKS250 is a high performance, powerful, and efficient antenna controller system for both mobile and fixed antenna applications.

- 3-axis movement, auto stow / auto deploy (for Mobile antennas)

- 1 / 32 or 1 / 255 steps speed adjustment over one screen

- Find satellite automatically and peak the satellite you find. Recall last satellite info and direct your antenna automatically. Select a satellite from your list of 700 satellites.

- Inclined satellite orbit tracking (with software licence option)
  AKS250 can track satellites thanks to the DVB tuner inside and by referring to a carrier signal or a beacon receiver. Tracking can be achieved with two methods : Step Track and Memory Track.

- Names, coordinates and parameters of 50 satellites can be stored

- English and Turkish menu, manual and auto movements are on the same screen

- Define access limits with admin and user levels and manage antenna controller from your PC via Ethernet or Serial (RS232/485) ports.

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APPLICATION WITH AKS250

Control both 2-axis and 3-axis dishes. AKS250 has limit switches and sensor inputs inside for movement.

Thanks to up limit, down limit, and azimuth inhibit information you can enable / disable azimuth movement.

There are 3 coordination info to enable / disable azimuth movement: CW limit, CCW Limit and center info.

There are 3 coordination info to enable / disable elevation movement: Up limit, down limit, and azimuth inhibit.

There are 2 coordination info to enable / disable polarization movement: Polarization CW limit, polarization CCW limit.

Sensors that can be used with AKS250 :

Resolver, Pulse Counter, Optic Encoder, Magnetic Switch, Inductive Sensor, Absolute Shaft Encoder, Potantiometer, Inclinometer

The position of antenna can be seen as counter or angle :

Sensitivity is 360° equal 65536 pulse when the counter mode is selected.
Sensitivity is 0.05° (0,01° with resolver option)when the angle mode is selected.

35V DC, 200W max. motors can be used for azimuth and elevation. Polarization needs 24V DC, 50W max.

For special requests tailor made solutions can be provided. Each of 3 movements are PWM controlled.

By using smart movement features of AKS250 an alarm or preventing movement can be produced.

This will be done by AKS250 by controlling every step of an ordered movement. (i.e over current alarm, lack of DC voltage or ordered movement out of limits.

AKS250 has independent inputs and outputs that can provide a lot of options such as monitoring temperature of the antenna, monitoring and controlling de-ice system and others.

Power Consumption	360W Max.(Fixed ant. 550W Max.)
Dimensions	H:2RU, W:19", D:420mm
Connection	30 pins Circular Connector 5x9 pins D-SUB RJ45 Ethernet and F-connector for L-Band
Working Temperature	0 – 60 degree
Remote Control	Ethernet or RS485/RS232 Connection

* In case of using with an outdoor control panel AKS250 can work between -40 to +60°C outdoor temperature.

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