

## ProSat-Solutions

### AKS250 ANTENNA CONTROLLER

- ☒ 3 axis movement
- ☒ Adjust speed instantly
- ☒ Find satellite automatically
- ☒ Store satellite for quick re-finding
- ☒ Optional integrated spectrum analyzer
- ☒ Define your limits
- ☒ Control via computer
- ☒ RF output activation after peaking completes
- ☒ Eutelsat certified auto-pointing
- ☒ Built-in DVB-S/S2 tuner
- ☒ Locking into DVB-S/S2 carriers and listing service names
- ☒ Spectrum viewer (with software licence option)
- ☒ Automatic or manual de-ice system controlling (if de-icing available)



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 Vehicle Applications)**

Azimuth, elevation and polarization movements. Deploy antenna to a desired point for 3 axis by one selection.

**Adjust Speed Instantly**

32 steps speed adjustment over one screen.

**Find Satellite Automatically**

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**

AKS250 can track satellites thanks to the DVB tuner inside and by referring to a carrier signal or a beacon receiver.

**Store Satellite for Quick Re-finding**

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

**Easy to Use**

Manual and Auto movements are on the same screen.

**Control via Computer**

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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#### APPLICATIONS WITH AKS250

Control both 2 axis and 3 axis dishes. AKS 250 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, Potentiometer, Inclinator

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 0,1° when the angle mode is selected.

35VDC, 200W max. motors can be used for Azimuth and Elevation. Polarization needs 24VDC, 50W max. For special requests, tailor made solutions can be provided. Each of 3 movements are PWM Controlled.

Thanks to internal Receiver inside, AKS 250 help you to auto direct and auto peak desired satellite.

By using Smart Movement Features of AKS 250 an alarm or preventing movement can be produced. This will be done by AKS 250 by controlling every step of an ordered movement. (i.e. Over current alarm, lack of DC voltage or ordered movement out of limits.)

AKS 250 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)
Dimensions:	H:2U, 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°C
Remote Control:	Ethernet or RS485/RS232 Connection