

# SVS SATELLITE SYSTEMS

## SM240-RxTx MOTORIZED ANTENNA SOLUTION

SVS Telekom presents various antenna system to the market since 1995. As a fixed motorised antenna, SM240 Transmit-Receive Antenna System created a perfect alternative to the customers. SM 240 which is supported by AKS250, has excellent movement ability on three axis. SM 240 is used under difficult conditions for many years and at the end of these tests we created perfect matching between SM240 and AKS250 antenna controller

- 2.4m Offset Antenna
- Two pieces of reflector
- Precision compression molded offset reflector
- Three axis motorised system
- Galvanized king post pedestal
- Designed for C, Ku and DBS band applications,
- Available de-icing system
- Optionally tracking System with the beacon receiver or DVB tuner card.
- Optionally resolver for high sensitivity



- 2.4m antenna is a high performance, powerful, and efficient motorised antenna system.
- The versatile pedestal mount allows for motorised applications and features  $\pm 150^\circ$  azimuth coverage in three continuous overlapping ranges.
- The satellite tracking system
- Optional De-icing system

- Mechanical Limit Switches : Provides limitation for the 3-axis movement, status control by six limit switches.
- Integrated DVB-S/S2 Tuner Card in Antenna Controller for locking to reference DVB carrier
- Applicable Options : 2 port receive, de-icing.
- Antenna Control Capabilities:
- Tracking of an inclined orbit satellite by using tuner card or beacon receiver



### Azimuth

Motor : 36 VDC  
Sensor : Potentiometer  
Resover optional

### Elevation

Motor : 36 VDC  
Sensor : Potentiometer  
Resover optional

### Polarization

Motor : 24 VDC  
Sensor : Potentiometer

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## SM240-RxTx FIXED MOTORIZED ANTENNA SOLUTIONS

### RF SPECIFICATIONS

	Ku-Band
Frequency Band	Tx: 13.75-14.50 GHz Rx 10.70-12.75 GHz
Polarization	Linear,Orthogonal
Antenna Gain	Tx: 49.3dBi @ 14.3 GHz Rx: 47.8dBi @12.0 GHz
Antenna Noise Temperature(30° elevation)	45 K
Antenna Cross Polarization Isolation	35 dB on Axis
Copolar Sidelobe Envelope	0 dB
3 dB Beamwidth	Tx: 0.6°@14.3 GHz Rx: 0.7°@12.0 GHz
VSWR	1.3:1 Max
Feed Interface	WR-75 Flat Flange

### MECHANICAL SPECIFICATIONS

Antenna Geometry	Off-Set Feed Prime Focus
Antenna Reflector Effective Aperture	2.4 m
Ports	2 (Optionally 3 port)
Elevation Range	10°-90°
Azimuth Range	±150°(Optionally ±180°)
Polarization Range	±100°
Weight	300 kg
Reflector Material	Two Piece GlassFiber-Reinforced Polyester

### SPEED

	Minimum	Maksimum
Elevation	0.1°/sec	1,5°/sec
Azimuth	0.1°/sec	1,5°/sec
Polarization	0.5°/sec	13°/sec

### ENVIRONMENTAL SPECIFICATION

	Operational	Survival
Wind Load	80km/h	150 km/h
Ambient Temperature	-30°C to +60°C	-40°C to +70°C
Humidity	%0 - %100	%0 - %100



Esenkent Mah. Baraj Yolu Cad. Emirgan Sok. No: 3  
34776 UMRANIYE-ISTANBUL-TURKEY

Tel: +90 216 329 56 00 Fax: +90 216 329 02 99

www.svstelekom.com.tr sales@svstelekom.com.tr