

## Antenna Control System - GSA Series SRV-GSA-3000-A

The TEMIX Antenna Control System Model SRV-GSA-3000-A is designed to provide an accurate positioning for elevation over azimuth Earth Station Antennas and performs fully automatic Tracking also for Inclined Orbit Satellites. It combines affordability with the reliability and precision expected of professional-grade communications equipment. TEMIX Antenna Control System is suitable for any type of antenna system due to the high flexibility and large modes of configuration; this makes it ideal to replace also any kind of antenna controllers. Antenna Control System includes:

- Antenna Control Unit (ACU)
- Motor Drive Unit (MDU)
- Beacon Tracking Receiver (BTR)



### Features:

- Automatic azimuth, elevation and polarization pointing solution calculation
- GPS Receiver for determination of antenna latitude and longitude
- Automatic tracking of inclined orbit satellites
- Automatic polarization control of rotating feeds
- Automatic repositioning to stored satellites

### Applications

- Earth Stations from 2.4m up to 9m
- Elevation over Azimuth Mounts
- Tracking of GEO Satellites
- Tracking of Inclined Orbit Satellites
- Highly Flexible Solution: ideal for replacement of old Servo Systems

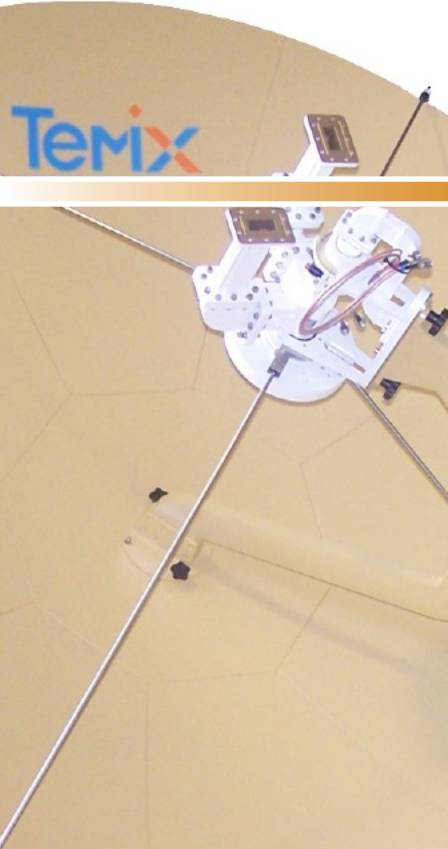
\*The Information included in this data sheet may be changed without advise. rev\_02/18

|                          |   |
|--------------------------|---|
| Operative Modes          | Standby<br>Manual<br>Preset: <ul style="list-style-type: none"> <li>• Go-To Satellite</li> <li>• Go-To Angle</li> </ul> Tracking <ul style="list-style-type: none"> <li>• Steptrack</li> <li>• StepTrack with Memory (Memory Track)</li> <li>• Program track               <ul style="list-style-type: none"> <li>• TLE</li> <li>• Intelsat 11 Parameters</li> <li>• Inclined Orbit Satellite Tracking</li> </ul> </li> </ul> |
| Tracking Accuracy        | better than 10% of 3dB BW in StepTrack Tracking<br>better than 5% of 3dB BW in Program Track  |
| Angle Transducers        | High Resolution Absolute Encoders   |
| Display Angle Resolution | 0.001°  |
| Accuracy                 | +/-0.05°  |

### TEMIX Communication Engineering

Corso Michelangelo Buonarroti, 61/b  
95039 Trecastagni (Catania) - ITALY  
Tel. + 39 095 8996903  
Tel. + 39 095 8880189  
[info@temix.it](mailto:info@temix.it)  
[www.temix.it](http://www.temix.it)

**Temix**  
communications

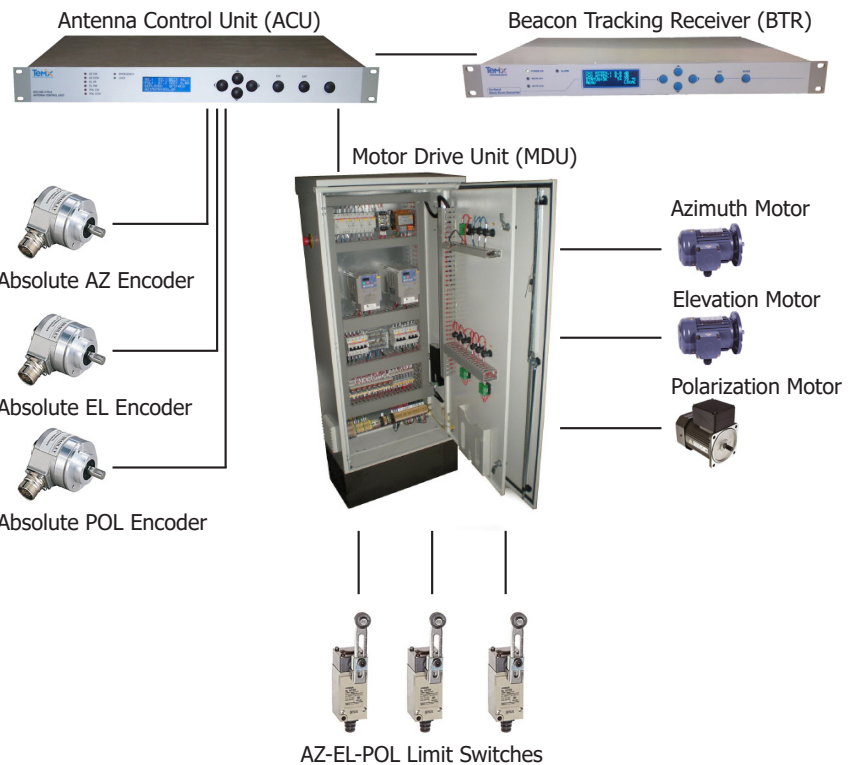


## Antenna Control System - GSA Series SRV-GSA-3000-A

MDU electronics is contained in an IP65-rated weatherproof outdoor housing with a hinged front access port secured by key screw. An emergency cut-off switch is accessible to the left of this housing.

MDU is equipped with variable frequency drive inverters to control the speed of the 3-phase motors for AZ and EL providing a two-speed control.

The inverter drives provides a superior motor protection through electronic motor overcurrent monitoring and protection. Motor current is continuously monitored and compared against set threshold levels so that in case exceeding threshold current the inverter disables the drive.



### MDU controls & indicators:

- Local/Remote
- Azimuth & Elevation Speed Adjust
- Azimuth CW and CCW Switch
- Elevation UP and DOWN Switch
- Polarization CW and CCW Switch
- Control Power LED
- Main Circuit Breaker
- Drive Circuit Breaker

\*The Information included in this data sheet may be changed without advise. rev\_02/18

|                |  |
|----------------|--|
| Input Power    | Antenna Control Unit: 90-240Vac, 50/60Hz           |
|                | Motor Drive Unit: 380-415Vac, Three-Phase, 50/60Hz |
| Remote Control | SNMP, RS-232/422/485                               |

### TEMIX Communication Engineering

Corso Michelangelo Buonarroti, 61/b  
95039 Trecastagni (Catania) - ITALY  
Tel. + 39 095 8996903  
Tel. + 39 095 8880189  
[info@temix.it](mailto:info@temix.it)  
[www.temix.it](http://www.temix.it)